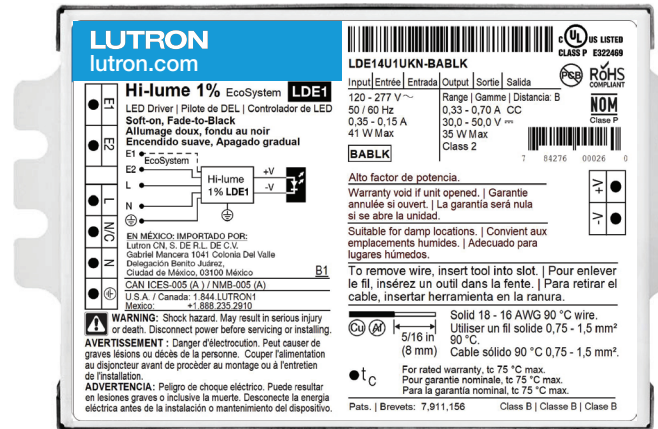


## Hi-lume 1% EcoSystem LED Driver with Soft-on, Fade-to-Black

Hi-lume 1% EcoSystem LED Drivers with Soft-on, Fade-to-Black provide a high-performance solution for any space, in any application. They provide smooth, continuous dimming down to 1% of full output current, and fade smoothly between 0% and 1% with Soft-on, Fade-to-Black.

### Features

- cULus® Listed Class P for USA and Canada.
- UL® Type TL rated. Visit “Online Certificates Directory” at [www.ul.com](http://www.ul.com), enter file number “E322469” to determine the Type TL numbers specific to the LDEx model Lutron LED Driver.
- Soft-on, Fade-to-Black: fades smoothly between 0% and 1% when turned on and off for an incandescent-like experience.
- Continuous, flicker-free dimming from 100% to 1%<sup>1</sup>.
- Dimming Method:
  - Constant-current reduction dimming provides video-friendly performance down to 5%
  - PWM dimming below 5% (240 Hz), % Modulation = 100%
- Guaranteed dimming performance when used with Lutron EcoSystem controls.
- Guaranteed compatibility with Energi Savr Node units with EcoSystem, GRAFIK Eye QS with EcoSystem, PowPak dimming module with EcoSystem, and Quantum systems, allowing for integration into a planned or existing EcoSystem lighting control solution.
- QwikFig compatible models available, see **How to Build a Model Number** page for details. For more information, please refer to the QwikFig User Guide (Lutron P/N 041473) or contact your Lutron sales representative.
- Protected from miswires of input power to EcoSystem control inputs up to 277 V~.
- Rated lifetime of 50,000 hours at 75 °C calibration point (t<sub>c</sub>).
- FCC Part 15 Class A
- 100% performance tested at factory before shipping.
- RoHS compliant.
- Non-volatile memory restores all settings after power failure.
- For more information please visit: [www.lutron.com/hilume1softbled](http://www.lutron.com/hilume1softbled)



### K-case type

3.00 in (76 mm) W × 1.00 in (25 mm) H × 4.90 in (124 mm) L



### M-case type

1.18 in (30 mm) W × 1.00 in (25 mm) H × 14.13 in (359 mm) L

### EcoSystem Features

- Simpler to wire and more reliable than 0–10 V~.
- Guarantees compatibility between Lutron controls, LED drivers, ballasts, and sensors.
- Accommodates zone and control changes without rewiring.
- Link to Lutron Quantum Total Light Management System to monitor lighting power consumption.
- Polarity-free and topology-free.
- Digital EcoSystem intelligence allows easy code compliance.
- Digital EcoSystem control link can be Class 1 or Class 2.
- Upon loss of Digital EcoSystem control link, drivers go to emergency level (default is high-end, but can be programmed during system setup).

<sup>1</sup> Light output at 1% depends on the efficacy of the LED light engine used with the driver.

## LUTRON SPECIFICATION SUBMITTAL

Job Name:

Model Numbers:

Job Number:

## Specifications

### Regulatory Approvals and Compliance

- cULus® Listed Class P for USA and Canada
- NOM certified for “BLK” models only (requires QwikFig and a K- or M-can nest to configure)
- Lutron Quality Systems registered to ISO 9001.2015
- Manufacturing facilities employ ESD reduction practices that comply with the requirements of ANSI/ESD S20.20
- Meets ANSI C62.41 category A surge protection standards up to and including 4 kV
- Inrush current less than NEMA 410-2011 limit
- FCC Part 15 Class A
- Canadian EMI Class A Compliance Equivalent: CAN ICES-005(A)/NMB-005(A)
- Meets UL 8750, “Light Emitting Diode (LED) Equipment For Use in Lighting Products”
- Class 2 output
- LED drivers need to meet certain performance criteria in order for the completed luminaires to comply with the ENERGY STAR® Luminaires V2.0 Specification. All models meet these performance criteria throughout their entire load compatibility regions. Consult Application Note #599 (P/N 048599), **ENERGY STAR® Luminaires V2.0 and Lutron Drivers**, at [www.lutron.com](http://www.lutron.com) for availability dates of compliant products
- LED drivers need to meet certain performance criteria in order for the completed luminaires to comply with Title 24 requirements as detailed in CEC-400-2015-037-CMF. All models meet both commercial (at 120 V~/277 V~) and residential (at 120 V~) performance criteria throughout their entire load operating regions. Consult **CEC-400-2015-032-CMF Section 6.2.7** for important information on meeting start-up time requirements with fade-in lighting.
- M-case type performance is in compliance with DLC version 2.1 in designated areas (see “Load Compatibility” graph in **Output Range** pages)

### Performance

- Soft-on, Fade-to-Black: fades smoothly between 0% and 1% when turned on and off for an incandescent-like experience
- Dimming Range: 100% to 1%<sup>1</sup>
- Operating Voltage: 120 V~/277 V~ at 50/60 Hz
- Lifetime: 50,000 hours when calibration point ( $t_c$ ) at 75 °C<sup>2</sup>
- For rated warranty,  $t_c$  not to exceed 75 °C (maximum rated temperature)<sup>2</sup>

 SPECIFICATION SUBMITTAL

- Patented thermal foldback protection
- At turn on, lighting fades smoothly to the desired level without decreasing or flashing to full brightness
- Non-volatile memory restores all driver settings after power failure
- Typical standby power consumption: 0.2 W at 120 V~ and 0.3 W at 277 V~
- Open-circuit protected output
- Short-circuit and overload-protected output
- Class 2 output designed to withstand hot swap of the LED load

### Environmental

- Sound rated: Class A inaudible in 24 dBA ambient
- Relative Humidity: maximum 90% non-condensing
- Minimum Operating Ambient Temperature:  $t_a = 0\text{ °C}$ <sup>3</sup>
- Indoor use only
- Rated for dry and damp locations

### Driver Wiring and Mounting

- Driver is grounded by a mounting screw to the grounded fixture or by terminal connection
- Terminal blocks on the driver accept one solid wire per terminal from 18 AWG to 16 AWG (0.75 mm<sup>2</sup> to 1.5 mm<sup>2</sup>)
- Fixture must be grounded in accordance with local and national electrical codes
- Maximum driver-to-LED light engine wire length for:

| Wire Gauge                                 | Maximum Lead Length |                  |                  |
|--------------------------------------------|---------------------|------------------|------------------|
|                                            | 150 mA to 700 mA    | 710 mA to 1.50 A | 1.51 A to 2.10 A |
| 18 AWG (0.75 mm <sup>2</sup> )             | 30 ft (9 m)         | 15 ft (4.5 m)    | 10 ft (3 m)      |
| 16 AWG (1.5 mm <sup>2</sup> )              | 35 ft (10.5 m)      | 25 ft (7.5 m)    | 15 ft (4.5 m)    |
| 14 AWG (2.5 mm <sup>2</sup> ) <sup>4</sup> | 50 ft (15 m)        | 40 ft (12 m)     | 25 ft (7.5 m)    |
| 12 AWG (4.0 mm <sup>2</sup> ) <sup>4</sup> | 100 ft (30 m)       | 60 ft (18 m)     | 40 ft (12 m)     |

<sup>1</sup> Light output at 1% depends on the efficacy of the LED light engine used with the driver.

<sup>2</sup> To maintain warranty, installer is responsible for ensuring that the driver calibration point does not exceed 75 °C.

<sup>3</sup> Where  $t_a$  is the temperature of the air directly surrounding the driver.

<sup>4</sup> Terminal blocks on the drivers accept only solid 18 AWG to 16 AWG (0.75 mm<sup>2</sup> to 1.5 mm<sup>2</sup>) wire. To use wire gauges larger than the terminal blocks' rated gauge of 16 AWG (1.5 mm<sup>2</sup>) refer to the **Terminal Wiring Gauges** diagram. Connect up to 3 ft (1.0 m) of 18 AWG to 16 AWG (0.75 mm<sup>2</sup> to 1.5 mm<sup>2</sup>) wire to the LED driver terminal blocks, then connect 12 AWG or 14 AWG (4.0 mm<sup>2</sup> or 2.5 mm<sup>2</sup>) up to the length allowed in the above table.

Page

Job Name:

Model Numbers:

Job Number:

## How to Select the Correct LED Driver for Your Load

1. Review the specifications of the LED load.
2. Identify the minimum and maximum operating voltage of the LED load at the desired operating current. This "current" will be the rated output current of the LED driver. Consult the LED load manufacturer for any questions.

**Example:** An LED load that is rated at 1 A and 33 V nominally, has an output voltage range of 28–38 V (at 1 A) due to unit-to-unit variation, temperature, etc.

3. Determine the proper operating range of the LED driver.
  - a. Identify the output range(s) of the driver family that includes the desired current.

### i. Select Current

**Example:** Only "B", "C", "U", and "V" models meet the current range of the selected load (1 A).

#### LED Load Output Range

L = 0.15–0.32 A, 20–40 V $\overline{=}$ , 5–10 W

M = 0.25–0.50 A, 20–40 V $\overline{=}$ , 6.5–14 W

N = 0.35–0.75 A, 20–40 V $\overline{=}$ , 10–20 W

B = 0.50–1.25 A, 20–40 V $\overline{=}$ , 15–35 W

C = 0.88–1.75 A, 20–40 V $\overline{=}$ , 25–50 W

D = 1.25–2.10 A, 20–40 V $\overline{=}$ , 35–75 W

J = 0.15–0.30 A, 30–50 V $\overline{=}$ , 6–12 W

K = 0.24–0.50 A, 30–50 V $\overline{=}$ , 9–20 W

T = 0.40–0.83 A, 30–50 V $\overline{=}$ , 15–35 W

U = 0.70–1.33 A, 30–50 V $\overline{=}$ , 25–50 W

V = 1.00–1.88 A, 30–50 V $\overline{=}$ , 40–75 W

### ii. Select Voltage

**Example:** Out of the 4 models indicated above, only "B" and "C" models meet the voltage requirement for the selected load (28–38 V).

#### LED Load Output Range

L = 0.15–0.32 A, 20–40 V $\overline{=}$ , 5–10 W

M = 0.25–0.50 A, 20–40 V $\overline{=}$ , 6.5–14 W

N = 0.35–0.75 A, 20–40 V $\overline{=}$ , 10–20 W

B = 0.50–1.25 A, 20–40 V $\overline{=}$ , 15–35 W

C = 0.88–1.75 A, 20–40 V $\overline{=}$ , 25–50 W

D = 1.25–2.10 A, 20–40 V $\overline{=}$ , 35–75 W

J = 0.15–0.30 A, 30–50 V $\overline{=}$ , 6–12 W

K = 0.24–0.50 A, 30–50 V $\overline{=}$ , 9–20 W

T = 0.40–0.83 A, 30–50 V $\overline{=}$ , 15–35 W

U = 0.70–1.33 A, 30–50 V $\overline{=}$ , 25–50 W

V = 1.00–1.88 A, 30–50 V $\overline{=}$ , 40–75 W

continued on next page...



SPECIFICATION SUBMITTAL

Page

Job Name:

Model Numbers:

Job Number:

## How to Select the Correct LED Driver for Your Load (continued)

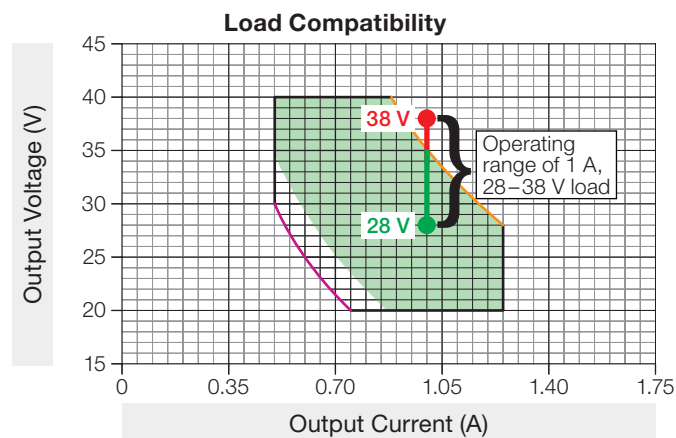
b. Examine the **Load Compatibility** graphs below for each output range to ensure that the voltage range of the LED load is within the safe operating area.

iii. Select Power

**Example:** Lines marked below indicate load specifications (28–38 V at 1 A).

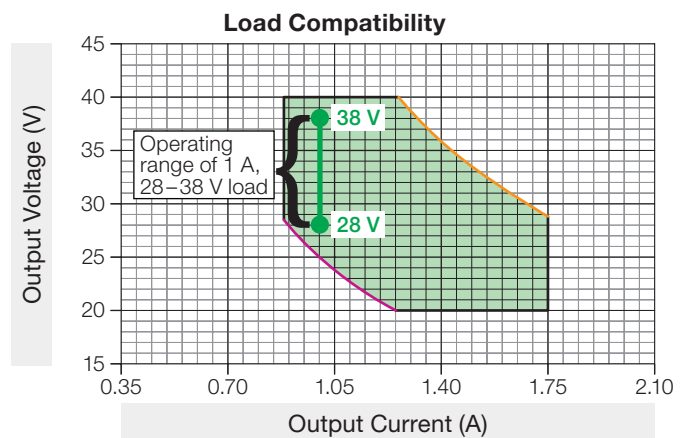
### “B” Model (Not Compatible) ❌

Since the maximum voltage of the load (38 V) exceeds the allowable voltage of “B” model (35 V at 1 A), this model is not compatible.



### “C” Model (Compatible) ✅

Operating voltage range for “C” model is 25–40 V at 1 A. Since the load specifications are within the operating range, “C” model is compatible for this load.



4. See **How to Build A Model Number** to create the appropriate model number for the desired driver. If a QwikFig compatible driver is needed, identify the proper **LED Load Output Range** (voltage and current) and insert “BLK” in the **Current Level (for Constant Current)** section of the model number.

Job Name:

Model Numbers:

Job Number:

## Load Learning

### What is load learning?

Each Lutron constant-current LED driver is able to operate over a range of LED load voltages. In order to operate with optimum efficiency, these drivers continuously sense the LED load voltage and make adjustments to their internal operation.

### When does load learning happen?

Load learning happens continuously and in most cases is imperceptible. However, when a new load is connected to the driver it will take some time for the LED driver to adapt. A driver may be performing load learning during R&D/bench testing, production testing, or QwikFig/AirFig configuration when using a real load. If a driver was not allowed to learn its load during the fixture production process, it may happen when first installed in the final location.

### What does load learning look like?

Depending on the difference in forward voltage of the new load versus the last load the driver learned, one of the following may be observed:

1. The load may seem to operate properly.
2. The load may turn on at a low light level and remain there for a few seconds before transitioning to full light.
3. The load may turn on for a very brief flash, then go off for a few seconds before turning back on again.
4. There may be no light output at all for up to 20 seconds.

### How do I make a driver “learn” a new load?

Although this process will happen on its own during normal usage, Lutron recommends the following procedure be carried out before attempting to confirm proper operation:

1. Power up the LED driver on the intended load.
2. Once the light seems to be stable at full output, which may take 20 to 30 seconds, leave the driver on for another 20 seconds for the driver to learn the load voltage and commit it to memory.

**Note:** There is no limit to the number of times a driver can learn a new load.

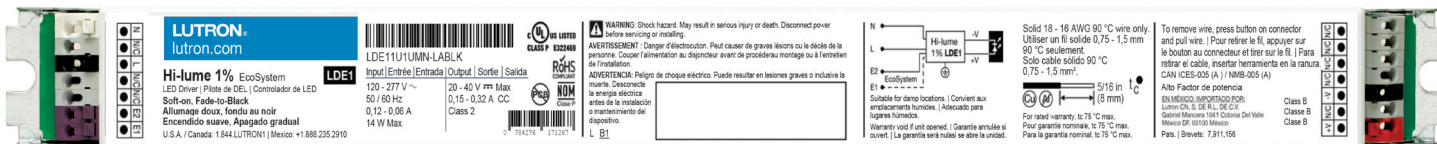
Job Name:

Model Numbers:

Job Number:



## How to Build a Model Number, M-Case Type: Hi-lume 1% EcoSystem (up to 75 W) LED Driver with Soft-on, Fade-to-Black



### M-case type

LDE1 U1UMN- A

### LED Load Power Range

(Power Range number is based on Load Output Range category)

- **1:** select if LED Load Output Range is “J,” “L,” or “M”
- **2:** select if LED Load Output Range is “K” or “N”
- **3:** select if LED Load Output Range is “B” or “T”
- **5:** select if LED Load Output Range is “C” or “U”
- **7:** select if LED Load Output Range is “D” or “V”

### LED Load Output Range: Class 2 Constant Current

(see the following pages for more detail)

- **L:** 0.15–0.32 A, 20.0–40.0 V<sup>\*\*\*</sup>, 5–10 W
- **M:** 0.25–0.50 A, 20.0–40.0 V<sup>\*\*\*</sup>, 6.5–14 W
- **N:** 0.35–0.75 A, 20.0–40.0 V<sup>\*\*\*</sup>, 10–20 W
- **B:** 0.50–1.25 A, 20.0–40.0 V<sup>\*\*\*</sup>, 15–35 W
- **C:** 0.88–1.75 A, 20.0–40.0 V<sup>\*\*\*</sup>, 25–50 W
- **D:** 1.25–2.10 A, 20.0–40.0 V<sup>\*\*\*</sup>, 35–75 W
- **J:** 0.15–0.30 A, 30.0–50.0 V<sup>\*\*\*</sup>, 6–12 W
- **K:** 0.24–0.50 A, 30.0–50.0 V<sup>\*\*\*</sup>, 9–20 W
- **T:** 0.40–0.83 A, 30.0–50.0 V<sup>\*\*\*</sup>, 15–35 W
- **U:** 0.70–1.33 A, 30.0–50.0 V<sup>\*\*\*</sup>, 25–50 W
- **V:** 1.00–1.88 A, 30.0–50.0 V<sup>\*\*\*</sup>, 40–75 W

### Current Level (for Constant-Current)

- **015** = 0.15 A

**Option 1:** Order a driver configured by Lutron to a desired output current.

**Example:** LDE13U1UMN-BA070 has been pre-configured at Lutron to an output of 0.70 A. Refer to the example above.

**Note:** LDE1 drivers produced by Lutron after January 1, 2019 can be reconfigured through QwikFig with a K- or M- can nest.

- **210** = 2.10 A

**Option 2:** Order a bulk driver and configure it through QwikFig with a K- or M- can nest.

**Example:** LDE13U1UMN-BABLK (0.5–1.25 A)\*

**Note:** Default set to minimum output current for the respective **LED Load Output Range**.

**Attention:** Model numbers may appear similar to Lutron Hi-lume 1% EcoSystem, Hi-lume 1% 3-wire, or Hi-lume 1% 2-wire drivers, but they are not direct model-for-model replacements. Please note the driver's output rating and the load ratings to select the correct product for your fixture.

\* Output voltage range changes with output current and according to power limits. Check driver specifications on the following pages carefully to understand output voltage range of a particular SKU. Purchaser is responsible for electrical compatibility between LED driver and LED load.

Job Name:

Model Numbers:

Job Number:

Example: LDE13U1UMN-BA070

- 0.70 A
- 15–28 W\*\*
- 21.5–40.0 V<sup>\*\*\*</sup> LED driver

For further assistance in selecting your model number, contact our LED Center of Excellence at **LEDs@lutron.com**

\*\* At 0.7 A, maximum voltage of 40 V provides 28 W (0.7 A × 40.0 V = 28 W)

† Minimum voltage of LDE13U1UMN-BA070 limited by 15 W minimum power: 15 W ÷ 0.70 A = 21.5 V

## M-Case Models: "L" Output Range

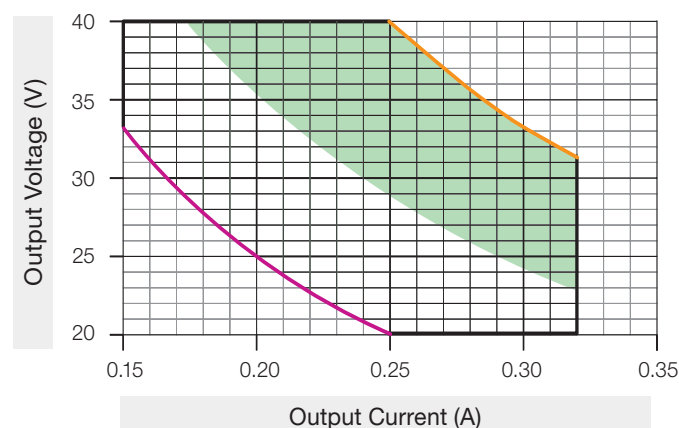
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                 | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 20–40 V $\sim$ | 0.15–0.32 A    | 5–10 W       |   | 75 °C                                    |

\* BLK model LDE11U1UMN-LABLK is NOM certified and available for Mexico.

## Typical Performance Specifications:

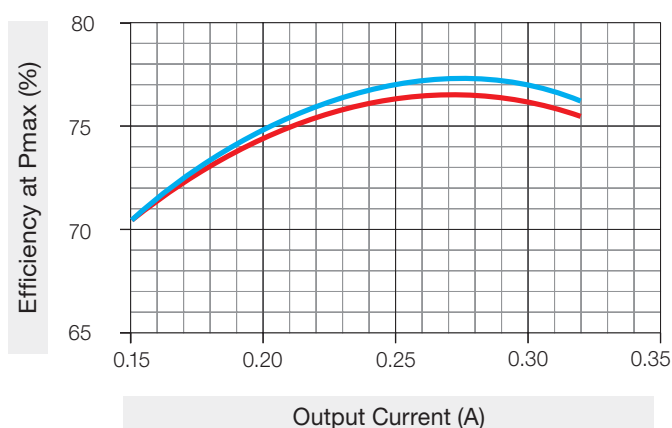
| Parameter         | Value  | Test Conditions                                                                                                                                             |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.05 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 0.25\text{ A}$ , $V_o = 40\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE11U1UMN-LA025 |
| Power Factor      | 0.93   |                                                                                                                                                             |
| THD               | 18%    |                                                                                                                                                             |
| Driver Efficiency | 78%    |                                                                                                                                                             |

Load Compatibility



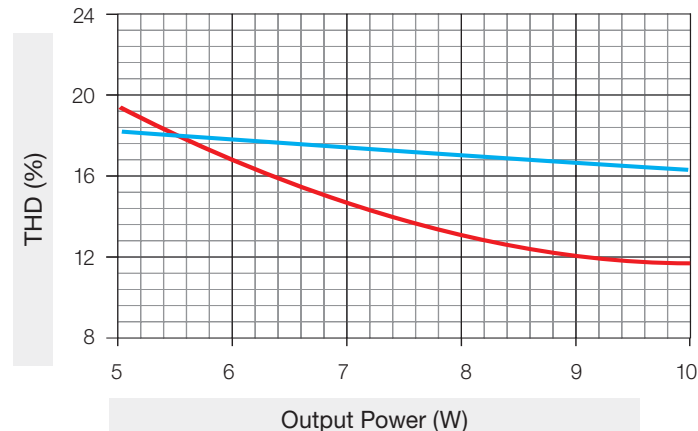
Key:  Shaded area meets DLC Version 2.1 (areas outside of shaded areas may not meet THD or PF requirements).  
 Constant 5 W output  Constant 10 W output

Typical Efficiency vs. Output Current



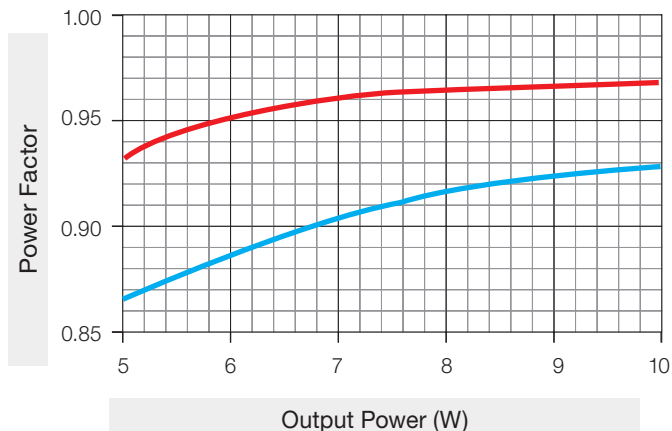
Key:  120 V~  277 V~

Typical THD vs. Output Power



Key:  120 V~  277 V~

Typical Power Factor vs. Output Power



Key:  120 V~  277 V~

Job Name:

Model Numbers:

Job Number:

M-Case Models: “L” Output Range *(continued)*

| Model number*<br>LDE11U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -LA015                       | 0.15                           | 33.3                           | 40.0    | 0.94/0.86                                                 | 19%/17%                     | 68%/66%                               | 0.97/0.89                                                 | 15%/17%                     | 71%/71%                               |
| -LA016                       | 0.16                           | 31.3                           | 40.0    | 0.94/0.87                                                 | 19%/17%                     | 69%/68%                               | 0.97/0.9                                                  | 14%/17%                     | 72%/72%                               |
| -LA017                       | 0.17                           | 29.4                           | 40.0    | 0.94/0.87                                                 | 19%/17%                     | 69%/68%                               | 0.97/0.9                                                  | 14%/16%                     | 73%/73%                               |
| -LA018                       | 0.18                           | 27.8                           | 40.0    | 0.94/0.87                                                 | 18%/17%                     | 69%/67%                               | 0.97/0.91                                                 | 13%/16%                     | 73%/74%                               |
| -LA019                       | 0.19                           | 26.3                           | 40.0    | 0.94/0.87                                                 | 18%/17%                     | 68%/67%                               | 0.97/0.91                                                 | 13%/16%                     | 74%/75%                               |
| -LA020                       | 0.20                           | 25.0                           | 40.0    | 0.94/0.87                                                 | 18%/17%                     | 68%/67%                               | 0.97/0.92                                                 | 12%/16%                     | 75%/75%                               |
| -LA021                       | 0.21                           | 23.8                           | 40.0    | 0.94/0.87                                                 | 18%/17%                     | 68%/67%                               | 0.97/0.92                                                 | 12%/16%                     | 75%/76%                               |
| -LA022                       | 0.22                           | 22.7                           | 40.0    | 0.94/0.87                                                 | 18%/17%                     | 68%/67%                               | 0.97/0.93                                                 | 11%/16%                     | 76%/76%                               |
| -LA023                       | 0.23                           | 21.7                           | 40.0    | 0.94/0.87                                                 | 19%/17%                     | 68%/67%                               | 0.97/0.93                                                 | 11%/16%                     | 76%/77%                               |
| -LA024                       | 0.24                           | 20.8                           | 40.0    | 0.94/0.87                                                 | 18%/17%                     | 68%/66%                               | 0.97/0.93                                                 | 12%/15%                     | 77%/77%                               |
| -LA025                       | 0.25                           | 20.0                           | 40.0    | 0.94/0.87                                                 | 18%/17%                     | 67%/66%                               | 0.97/0.93                                                 | 10%/15%                     | 77%/78%                               |
| -LA026                       | 0.26                           | 20.0                           | 38.5    | 0.94/0.88                                                 | 18%/17%                     | 68%/67%                               | 0.97/0.93                                                 | 10%/15%                     | 77%/78%                               |
| -LA027                       | 0.27                           | 20.0                           | 37.0    | 0.94/0.88                                                 | 18%/17%                     | 68%/67%                               | 0.97/0.93                                                 | 10%/15%                     | 77%/77%                               |
| -LA028                       | 0.28                           | 20.0                           | 35.7    | 0.94/0.89                                                 | 17%/17%                     | 69%/68%                               | 0.97/0.93                                                 | 10%/15%                     | 77%/78%                               |
| -LA029                       | 0.29                           | 20.0                           | 34.5    | 0.94/0.89                                                 | 17%/17%                     | 69%/68%                               | 0.97/0.93                                                 | 10%/15%                     | 77%/77%                               |
| -LA030                       | 0.30                           | 20.0                           | 33.3    | 0.95/0.89                                                 | 15%/17%                     | 69%/69%                               | 0.97/0.93                                                 | 10%/15%                     | 76%/77%                               |
| -LA031                       | 0.31                           | 20.0                           | 32.3    | 0.97/0.9                                                  | 14%/16%                     | 69%/69%                               | 0.97/0.93                                                 | 10%/15%                     | 76%/77%                               |
| -LA032                       | 0.32                           | 20.0                           | 31.3    | 0.97/0.9                                                  | 14%/17%                     | 70%/70%                               | 0.97/0.93                                                 | 10%/15%                     | 76%/77%                               |

\* See **How to Build a Model Number, M-Case Type** page for a sample model number.

Job Name:

Model Numbers:

Job Number:



## M-Case Models: "M" Output Range

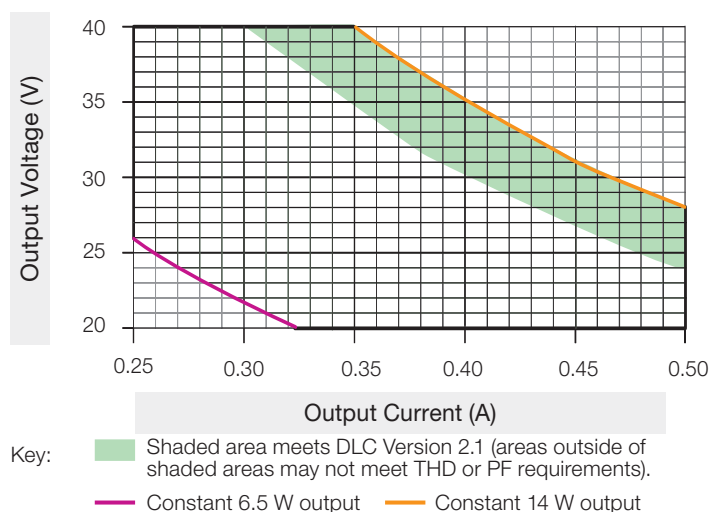
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                 | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 20–40 V $\sim$ | 0.25–0.50 A    | 6.5–14 W     |   | 75 °C                                    |

\* BLK model LDE11U1UMN-MABLK is NOM certified and available for Mexico.

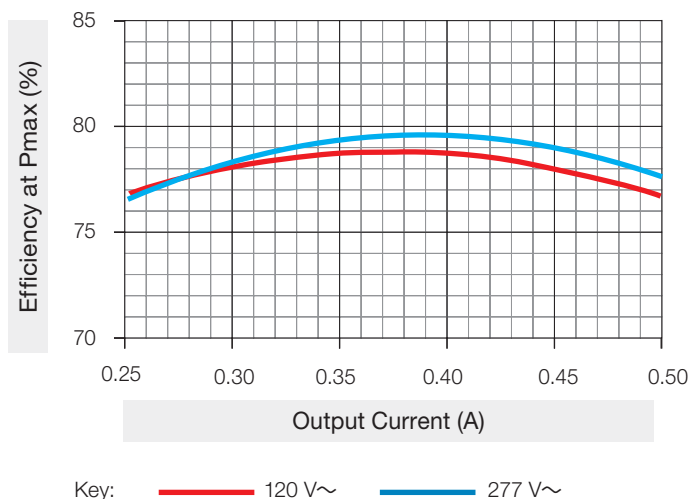
## Typical Performance Specifications:

| Parameter         | Value  | Test Conditions                                                                                                                                             |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.07 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 0.35\text{ A}$ , $V_o = 40\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE11U1UMN-MA035 |
| Power Factor      | 0.95   |                                                                                                                                                             |
| THD               | 20%    |                                                                                                                                                             |
| Driver Efficiency | 80%    |                                                                                                                                                             |

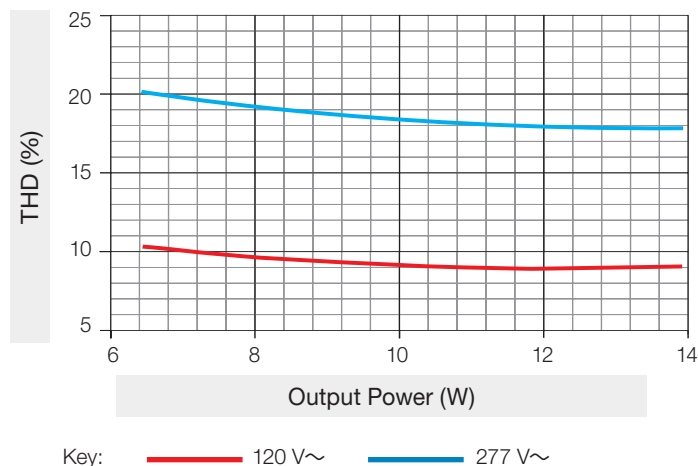
Load Compatibility



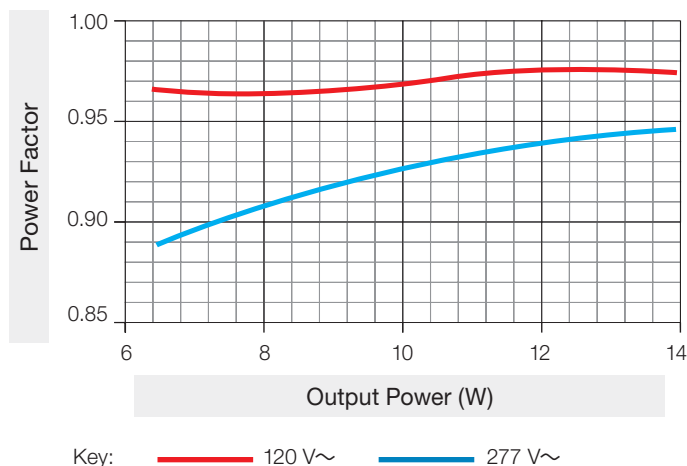
Typical Efficiency vs. Output Current



Typical THD vs. Output Power



Typical Power Factor vs. Output Power



Job Name:

Model Numbers:

Job Number:

M-Case Models: “M” Output Range (*continued*)

| Model number*<br>LDE11U1UMN- | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                              |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -MA025                       | 0.25                     | 25.6                        | 40.0    | 0.97/0.89                                              | 10%/19%              | 72%/70%                     | 0.98/0.93                                              | 10%/18%              | 77%/77%                     |
| -MA026                       | 0.26                     | 24.6                        | 40.0    | 0.97/0.89                                              | 10%/19%              | 72%/70%                     | 0.98/0.93                                              | 9%/17%               | 77%/77%                     |
| -MA027                       | 0.27                     | 23.7                        | 40.0    | 0.97/0.89                                              | 10%/19%              | 72%/70%                     | 0.98/0.93                                              | 9%/17%               | 78%/78%                     |
| -MA028                       | 0.28                     | 22.9                        | 40.0    | 0.97/0.89                                              | 10%/19%              | 72%/70%                     | 0.98/0.94                                              | 9%/17%               | 78%/78%                     |
| -MA029                       | 0.29                     | 22.1                        | 40.0    | 0.97/0.89                                              | 10%/19%              | 72%/69%                     | 0.98/0.94                                              | 9%/17%               | 78%/78%                     |
| -MA030                       | 0.30                     | 21.3                        | 40.0    | 0.97/0.89                                              | 9%/19%               | 72%/69%                     | 0.98/0.94                                              | 9%/17%               | 79%/79%                     |
| -MA031                       | 0.31                     | 20.6                        | 40.0    | 0.97/0.89                                              | 9%/19%               | 71%/69%                     | 0.98/0.94                                              | 9%/17%               | 79%/79%                     |
| -MA032                       | 0.32                     | 20.0                        | 40.0    | 0.97/0.89                                              | 9%/19%               | 71%/69%                     | 0.98/0.95                                              | 8%/17%               | 79%/79%                     |
| -MA033                       | 0.33                     | 20.0                        | 40.0    | 0.97/0.89                                              | 9%/19%               | 71%/69%                     | 0.98/0.95                                              | 8%/17%               | 79%/80%                     |
| -MA034                       | 0.34                     | 20.0                        | 40.0    | 0.97/0.89                                              | 9%/19%               | 71%/69%                     | 0.98/0.95                                              | 8%/17%               | 79%/80%                     |
| -MA035                       | 0.35                     | 20.0                        | 40.0    | 0.97/0.90                                              | 9%/19%               | 71%/69%                     | 0.98/0.95                                              | 8%/17%               | 79%/80%                     |
| -MA036                       | 0.36                     | 20.0                        | 38.9    | 0.97/0.90                                              | 9%/19%               | 72%/70%                     | 0.98/0.95                                              | 8%/17%               | 80%/80%                     |
| -MA037                       | 0.37                     | 20.0                        | 37.8    | 0.97/0.90                                              | 9%/19%               | 72%/71%                     | 0.98/0.95                                              | 8%/17%               | 80%/80%                     |
| -MA038                       | 0.38                     | 20.0                        | 36.8    | 0.97/0.91                                              | 9%/18%               | 72%/71%                     | 0.98/0.95                                              | 8%/17%               | 79%/80%                     |
| -MA039                       | 0.39                     | 20.0                        | 35.9    | 0.97/0.91                                              | 8%/18%               | 73%/71%                     | 0.98/0.95                                              | 8%/17%               | 79%/80%                     |
| -MA040                       | 0.40                     | 20.0                        | 35.0    | 0.97/0.91                                              | 8%/18%               | 73%/71%                     | 0.98/0.95                                              | 8%/17%               | 79%/80%                     |
| -MA041                       | 0.41                     | 20.0                        | 34.2    | 0.97/0.91                                              | 8%/18%               | 73%/72%                     | 0.98/0.95                                              | 8%/17%               | 79%/80%                     |
| -MA042                       | 0.42                     | 20.0                        | 33.3    | 0.97/0.92                                              | 8%/18%               | 73%/72%                     | 0.98/0.95                                              | 8%/17%               | 79%/80%                     |
| -MA043                       | 0.43                     | 20.0                        | 32.6    | 0.97/0.92                                              | 8%/18%               | 73%/72%                     | 0.98/0.95                                              | 8%/17%               | 79%/79%                     |
| -MA044                       | 0.44                     | 20.0                        | 31.8    | 0.97/0.92                                              | 8%/18%               | 73%/72%                     | 0.98/0.95                                              | 8%/17%               | 79%/79%                     |
| -MA045                       | 0.45                     | 20.0                        | 31.1    | 0.97/0.92                                              | 8%/18%               | 73%/73%                     | 0.98/0.95                                              | 8%/17%               | 78%/79%                     |
| -MA046                       | 0.46                     | 20.0                        | 30.4    | 0.97/0.92                                              | 8%/18%               | 74%/73%                     | 0.98/0.95                                              | 8%/17%               | 78%/79%                     |
| -MA047                       | 0.47                     | 20.0                        | 29.8    | 0.97/0.93                                              | 8%/18%               | 74%/73%                     | 0.98/0.95                                              | 8%/17%               | 78%/79%                     |
| -MA048                       | 0.48                     | 20.0                        | 29.2    | 0.97/0.93                                              | 7%/18%               | 74%/73%                     | 0.98/0.95                                              | 8%/17%               | 78%/79%                     |
| -MA049                       | 0.49                     | 20.0                        | 28.6    | 0.97/0.93                                              | 7%/17%               | 74%/73%                     | 0.98/0.95                                              | 8%/17%               | 78%/79%                     |
| -MA050                       | 0.50                     | 20.0                        | 28.0    | 0.97/0.93                                              | 7%/17%               | 74%/74%                     | 0.98/0.95                                              | 8%/17%               | 78%/79%                     |

\* See **How to Build a Model Number, M-Case Type** page for a sample model number.

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## M-Case Models: "N" Output Range

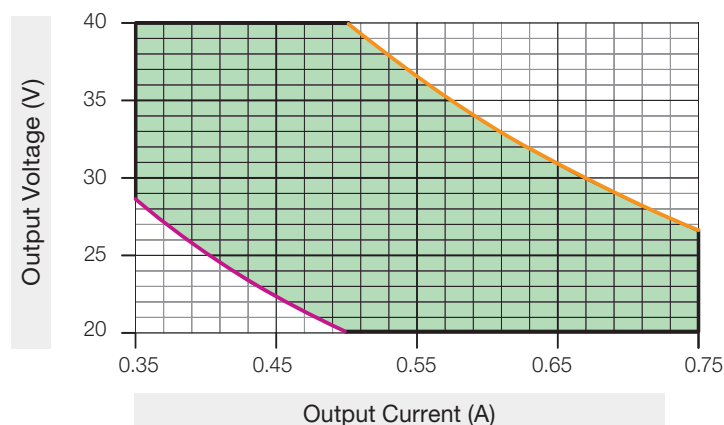
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                 | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 20–40 V $\sim$ | 0.35–0.75 A    | 10–20 W      |   | 75 °C                                    |

\* BLK model LDE12U1UMN-NABLK is NOM certified and available for Mexico.

## Typical Performance Specifications:

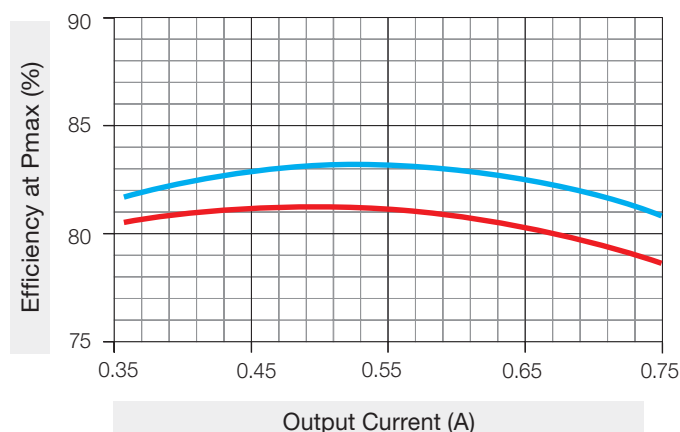
| Parameter         | Value  | Test Conditions                                                                                                                                             |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.09 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 0.50\text{ A}$ , $V_o = 40\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE12U1UMN-NA050 |
| Power Factor      | 0.97   |                                                                                                                                                             |
| THD               | 16%    |                                                                                                                                                             |
| Driver Efficiency | 83%    |                                                                                                                                                             |

Load Compatibility



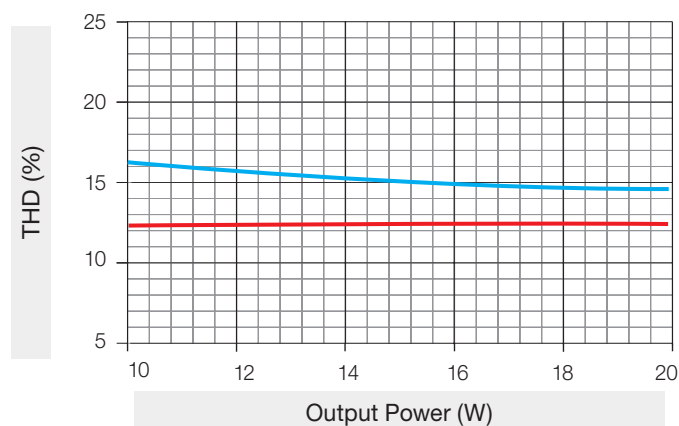
Key:  Shaded area meets DLC Version 2.1 (areas outside of shaded areas may not meet THD or PF requirements).  
 Constant 10 W output  Constant 20 W output

Typical Efficiency vs. Output Current



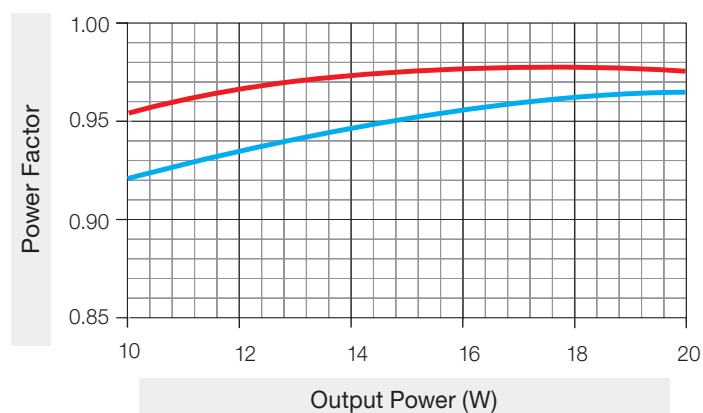
Key:  120 V $\sim$   277 V $\sim$

Typical THD vs. Output Power



Key:  120 V $\sim$   277 V $\sim$

Typical Power Factor vs. Output Power



Key:  120 V $\sim$   277 V $\sim$

Job Name:

Model Numbers:

Job Number:

## M-Case Models: “N” Output Range (continued)

| Model number*<br>LDE12U1UMN- | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                              |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -NA035                       | 0.35                     | 28.6                        | 40.0    | 0.96/0.92                                              | 13%/16%              | 77%/77%                     | 0.98/0.95                                              | 8%/15%               | 81%/82%                     |
| -NA036                       | 0.36                     | 27.8                        | 40.0    | 0.96/0.92                                              | 13%/16%              | 77%/77%                     | 0.98/0.95                                              | 8%/15%               | 81%/82%                     |
| -NA037                       | 0.37                     | 27.0                        | 40.0    | 0.96/0.92                                              | 13%/16%              | 77%/77%                     | 0.98/0.95                                              | 7%/14%               | 81%/82%                     |
| -NA038                       | 0.38                     | 26.3                        | 40.0    | 0.96/0.92                                              | 13%/16%              | 77%/77%                     | 0.98/0.96                                              | 7%/14%               | 81%/82%                     |
| -NA039                       | 0.39                     | 25.6                        | 40.0    | 0.96/0.92                                              | 13%/16%              | 77%/77%                     | 0.98/0.96                                              | 7%/14%               | 81%/83%                     |
| -NA040                       | 0.40                     | 25.0                        | 40.0    | 0.96/0.92                                              | 13%/16%              | 77%/77%                     | 0.98/0.96                                              | 7%/14%               | 81%/83%                     |
| -NA041                       | 0.41                     | 24.4                        | 40.0    | 0.96/0.92                                              | 13%/16%              | 77%/77%                     | 0.98/0.96                                              | 9%/14%               | 82%/83%                     |
| -NA042                       | 0.42                     | 23.8                        | 40.0    | 0.96/0.92                                              | 13%/15%              | 76%/77%                     | 0.98/0.96                                              | 11%/14%              | 82%/83%                     |
| -NA043                       | 0.43                     | 23.3                        | 40.0    | 0.96/0.92                                              | 13%/15%              | 76%/76%                     | 0.98/0.96                                              | 11%/14%              | 82%/83%                     |
| -NA044                       | 0.44                     | 22.7                        | 40.0    | 0.96/0.92                                              | 13%/15%              | 76%/76%                     | 0.98/0.96                                              | 13%/14%              | 82%/83%                     |
| -NA045                       | 0.45                     | 22.2                        | 40.0    | 0.96/0.92                                              | 13%/15%              | 76%/76%                     | 0.98/0.96                                              | 13%/14%              | 82%/84%                     |
| -NA046                       | 0.46                     | 21.7                        | 40.0    | 0.96/0.92                                              | 13%/15%              | 76%/76%                     | 0.98/0.96                                              | 13%/14%              | 82%/84%                     |
| -NA047                       | 0.47                     | 21.3                        | 40.0    | 0.96/0.92                                              | 13%/15%              | 76%/76%                     | 0.98/0.97                                              | 13%/14%              | 82%/84%                     |
| -NA048                       | 0.48                     | 20.8                        | 40.0    | 0.96/0.92                                              | 13%/15%              | 76%/76%                     | 0.98/0.97                                              | 13%/14%              | 82%/84%                     |
| -NA049                       | 0.49                     | 20.4                        | 40.0    | 0.96/0.93                                              | 13%/15%              | 76%/76%                     | 0.98/0.97                                              | 13%/14%              | 82%/84%                     |
| -NA050                       | 0.50                     | 20.0                        | 40.0    | 0.96/0.93                                              | 13%/15%              | 75%/76%                     | 0.98/0.97                                              | 13%/14%              | 82%/84%                     |
| -NA051                       | 0.51                     | 20.0                        | 39.2    | 0.96/0.93                                              | 13%/15%              | 76%/76%                     | 0.98/0.97                                              | 13%/14%              | 82%/84%                     |
| -NA052                       | 0.52                     | 20.0                        | 38.5    | 0.96/0.93                                              | 13%/15%              | 76%/76%                     | 0.98/0.97                                              | 13%/14%              | 82%/84%                     |
| -NA053                       | 0.53                     | 20.0                        | 37.7    | 0.96/0.93                                              | 13%/15%              | 76%/76%                     | 0.98/0.97                                              | 13%/14%              | 82%/84%                     |
| -NA054                       | 0.54                     | 20.0                        | 37.0    | 0.96/0.93                                              | 13%/15%              | 76%/76%                     | 0.98/0.97                                              | 13%/14%              | 82%/84%                     |
| -NA055                       | 0.55                     | 20.0                        | 36.4    | 0.96/0.93                                              | 12%/15%              | 76%/76%                     | 0.98/0.97                                              | 13%/14%              | 82%/84%                     |
| -NA056                       | 0.56                     | 20.0                        | 35.7    | 0.96/0.94                                              | 12%/15%              | 76%/77%                     | 0.98/0.97                                              | 13%/14%              | 82%/84%                     |
| -NA057                       | 0.57                     | 20.0                        | 35.1    | 0.96/0.94                                              | 12%/15%              | 76%/77%                     | 0.98/0.97                                              | 13%/14%              | 81%/84%                     |
| -NA058                       | 0.58                     | 20.0                        | 34.5    | 0.96/0.94                                              | 12%/15%              | 76%/77%                     | 0.98/0.97                                              | 13%/14%              | 81%/83%                     |
| -NA059                       | 0.59                     | 20.0                        | 33.9    | 0.97/0.94                                              | 11%/15%              | 76%/77%                     | 0.98/0.97                                              | 13%/14%              | 81%/83%                     |
| -NA060                       | 0.60                     | 20.0                        | 33.3    | 0.97/0.94                                              | 11%/15%              | 76%/77%                     | 0.98/0.97                                              | 13%/14%              | 81%/83%                     |
| -NA061                       | 0.61                     | 20.0                        | 32.8    | 0.96/0.94                                              | 11%/15%              | 76%/77%                     | 0.98/0.97                                              | 13%/14%              | 81%/83%                     |
| -NA062                       | 0.62                     | 20.0                        | 32.3    | 0.97/0.94                                              | 10%/14%              | 76%/77%                     | 0.98/0.97                                              | 13%/14%              | 81%/83%                     |
| -NA063                       | 0.63                     | 20.0                        | 31.8    | 0.98/0.95                                              | 9%/15%               | 76%/77%                     | 0.98/0.97                                              | 13%/14%              | 81%/83%                     |
| -NA064                       | 0.64                     | 20.0                        | 31.3    | 0.98/0.95                                              | 8%/14%               | 76%/77%                     | 0.98/0.97                                              | 13%/14%              | 81%/83%                     |
| -NA065                       | 0.65                     | 20.0                        | 30.8    | 0.98/0.95                                              | 8%/14%               | 76%/78%                     | 0.98/0.97                                              | 13%/14%              | 81%/83%                     |
| -NA066                       | 0.66                     | 20.0                        | 30.3    | 0.98/0.95                                              | 8%/14%               | 77%/78%                     | 0.98/0.97                                              | 13%/14%              | 80%/83%                     |
| -NA067                       | 0.67                     | 20.0                        | 29.9    | 0.98/0.95                                              | 8%/14%               | 77%/78%                     | 0.98/0.97                                              | 13%/14%              | 80%/82%                     |
| -NA068                       | 0.68                     | 20.0                        | 29.4    | 0.98/0.95                                              | 8%/14%               | 77%/78%                     | 0.98/0.97                                              | 13%/14%              | 80%/82%                     |
| -NA069                       | 0.69                     | 20.0                        | 29.0    | 0.98/0.95                                              | 8%/14%               | 77%/78%                     | 0.98/0.97                                              | 12%/14%              | 80%/82%                     |
| -NA070                       | 0.70                     | 20.0                        | 28.6    | 0.98/0.95                                              | 8%/14%               | 77%/78%                     | 0.98/0.97                                              | 12%/14%              | 80%/82%                     |

Job Name:

Model Numbers:

Job Number:

# M-Case Models: “N” Output Range *(continued)*

| Model number*<br>LDE12U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -NA071                       | 0.71                           | 20.0                           | 28.2    | 0.98/0.95                                                 | 7%/14%                      | 77%/78%                               | 0.98/0.97                                                 | 12%/14%                     | 80%/82%                               |
| -NA072                       | 0.72                           | 20.0                           | 27.8    | 0.98/0.95                                                 | 7%/14%                      | 77%/78%                               | 0.98/0.97                                                 | 12%/13%                     | 80%/82%                               |
| -NA073                       | 0.73                           | 20.0                           | 27.4    | 0.98/0.96                                                 | 7%/14%                      | 77%/78%                               | 0.98/0.97                                                 | 12%/14%                     | 80%/82%                               |
| -NA074                       | 0.74                           | 20.0                           | 27.0    | 0.98/0.96                                                 | 7%/14%                      | 77%/78%                               | 0.98/0.97                                                 | 12%/14%                     | 79%/82%                               |
| -NA075                       | 0.75                           | 20.0                           | 26.7    | 0.98/0.96                                                 | 7%/14%                      | 77%/78%                               | 0.98/0.97                                                 | 11%/14%                     | 79%/82%                               |

\* See [How to Build a Model Number, M-Case Type](#) page for a sample model number.

## M-Case Models: "B" Output Range

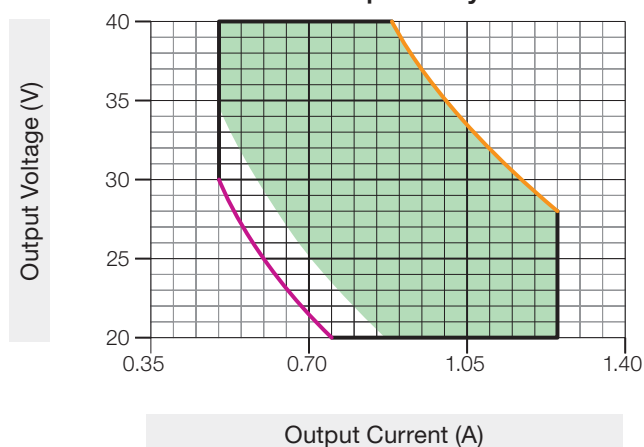
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                  | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 20–40 V $\sim$ | 0.50–1.25 A    | 15–35 W      |   | 75 °C                                    |

\* BLK model LDE13U1UMN-BABLK is NOM certified and available for Mexico.

## Typical Performance Specifications

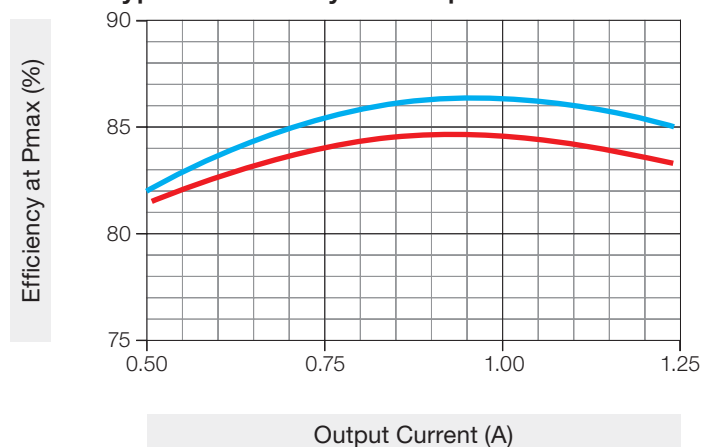
| Parameter         | Value  | Test Conditions                                                                                                                                             |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.15 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 0.88\text{ A}$ , $V_o = 40\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE13U1UMN-BA088 |
| Power Factor      | 0.96   |                                                                                                                                                             |
| THD               | 15%    |                                                                                                                                                             |
| Driver Efficiency | 85%    |                                                                                                                                                             |

Load Compatibility



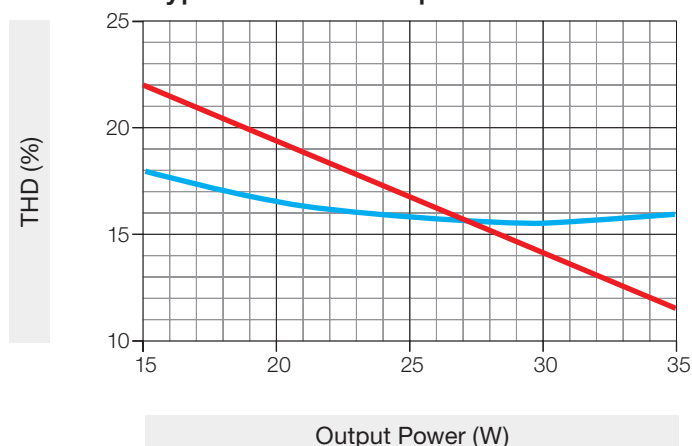
Key:   
 Shaded area meets DLC Version 2.1 (areas outside of shaded areas may not meet THD or PF requirements).  
 Constant 15 W output  Constant 35 W output

Typical Efficiency vs. Output Current



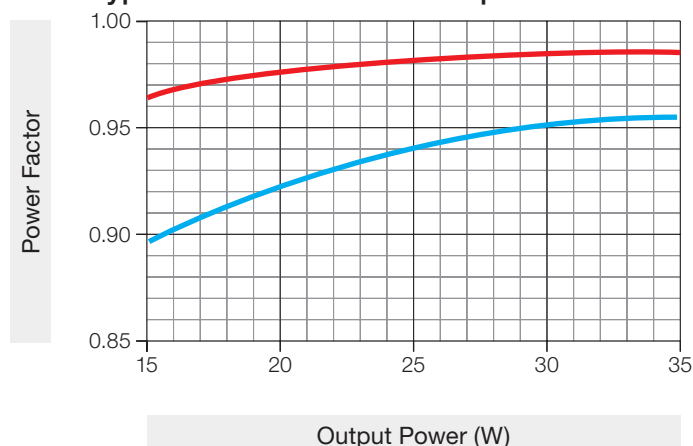
Key:  120 V $\sim$   277 V $\sim$

Typical THD vs. Output Power



Key:  120 V $\sim$   277 V $\sim$

Typical Power Factor vs. Output Power



Key:  120 V $\sim$   277 V $\sim$

Job Name:

Model Numbers:

Job Number:



## M-Case Models: “B” Output Range (continued)

| Model number*<br>LDE13U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -BA050                       | 0.50                           | 30.0                           | 40.0    | 0.97/0.90                                                 | 23%/18%                     | 78%/79%                               | 0.98/0.88                                                 | 16%/23%                     | 82%/79%                               |
| -BA051                       | 0.51                           | 29.4                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/78%                               | 0.98/0.93                                                 | 16%/15%                     | 82%/83%                               |
| -BA052                       | 0.52                           | 28.9                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/78%                               | 0.98/0.93                                                 | 16%/15%                     | 82%/83%                               |
| -BA053                       | 0.53                           | 28.3                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 77%/78%                               | 0.98/0.94                                                 | 16%/15%                     | 82%/83%                               |
| -BA054                       | 0.54                           | 27.8                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/78%                               | 0.98/0.94                                                 | 16%/16%                     | 82%/83%                               |
| -BA055                       | 0.55                           | 27.3                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/78%                               | 0.98/0.94                                                 | 15%/16%                     | 82%/83%                               |
| -BA056                       | 0.56                           | 26.8                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.98/0.94                                                 | 15%/16%                     | 83%/83%                               |
| -BA057                       | 0.57                           | 26.3                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.94                                                 | 15%/16%                     | 83%/84%                               |
| -BA058                       | 0.58                           | 25.9                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.94                                                 | 15%/16%                     | 83%/84%                               |
| -BA059                       | 0.59                           | 25.4                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.94                                                 | 15%/16%                     | 83%/84%                               |
| -BA060                       | 0.60                           | 25.0                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.94                                                 | 15%/16%                     | 83%/84%                               |
| -BA061                       | 0.61                           | 24.6                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.95                                                 | 15%/16%                     | 83%/84%                               |
| -BA062                       | 0.62                           | 24.2                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.95                                                 | 14%/16%                     | 83%/84%                               |
| -BA063                       | 0.63                           | 23.8                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.95                                                 | 14%/16%                     | 84%/85%                               |
| -BA064                       | 0.64                           | 23.4                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.95                                                 | 14%/16%                     | 84%/85%                               |
| -BA065                       | 0.65                           | 23.1                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.95                                                 | 14%/16%                     | 84%/85%                               |
| -BA066                       | 0.66                           | 22.7                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.95                                                 | 14%/16%                     | 84%/85%                               |
| -BA067                       | 0.67                           | 22.4                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.95                                                 | 14%/16%                     | 84%/85%                               |
| -BA068                       | 0.68                           | 22.1                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.95                                                 | 14%/16%                     | 84%/85%                               |
| -BA069                       | 0.69                           | 21.7                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.95                                                 | 13%/16%                     | 84%/85%                               |
| -BA070                       | 0.70                           | 21.4                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.95                                                 | 13%/15%                     | 84%/85%                               |
| -BA071                       | 0.71                           | 21.1                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.96                                                 | 13%/15%                     | 84%/86%                               |
| -BA072                       | 0.72                           | 20.8                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.96                                                 | 13%/15%                     | 84%/86%                               |
| -BA073                       | 0.73                           | 20.6                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.96                                                 | 13%/15%                     | 84%/86%                               |
| -BA074                       | 0.74                           | 20.3                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.96                                                 | 13%/15%                     | 85%/86%                               |
| -BA075                       | 0.75                           | 20.0                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.96                                                 | 13%/15%                     | 85%/86%                               |
| -BA076                       | 0.76                           | 20.0                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.96                                                 | 13%/15%                     | 85%/86%                               |
| -BA077                       | 0.77                           | 20.0                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.96                                                 | 13%/15%                     | 85%/86%                               |
| -BA078                       | 0.78                           | 20.0                           | 40.0    | 0.97/0.90                                                 | 23%/17%                     | 78%/79%                               | 0.99/0.96                                                 | 12%/15%                     | 85%/86%                               |
| -BA079                       | 0.79                           | 20.0                           | 40.0    | 0.97/0.90                                                 | 22%/17%                     | 78%/79%                               | 0.99/0.96                                                 | 12%/15%                     | 85%/86%                               |
| -BA080                       | 0.80                           | 20.0                           | 40.0    | 0.97/0.91                                                 | 22%/17%                     | 79%/80%                               | 0.99/0.96                                                 | 12%/15%                     | 85%/86%                               |
| -BA081                       | 0.81                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 22%/17%                     | 79%/80%                               | 0.99/0.96                                                 | 12%/15%                     | 85%/87%                               |
| -BA082                       | 0.82                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 22%/17%                     | 79%/80%                               | 0.99/0.96                                                 | 12%/15%                     | 85%/87%                               |
| -BA083                       | 0.83                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 22%/16%                     | 79%/80%                               | 0.99/0.96                                                 | 12%/15%                     | 85%/87%                               |
| -BA084                       | 0.84                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 21%/16%                     | 79%/80%                               | 0.99/0.96                                                 | 12%/15%                     | 85%/87%                               |
| -BA085                       | 0.85                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 21%/16%                     | 79%/80%                               | 0.99/0.96                                                 | 12%/15%                     | 85%/87%                               |
| -BA086                       | 0.86                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 21%/16%                     | 79%/80%                               | 0.99/0.96                                                 | 12%/15%                     | 85%/87%                               |
| -BA087                       | 0.87                           | 20.0                           | 40.0    | 0.98/0.92                                                 | 21%/16%                     | 79%/80%                               | 0.99/0.96                                                 | 12%/16%                     | 85%/87%                               |

Job Name:

Model Numbers:

Job Number:

## M-Case Models: “B” Output Range (continued)

| Model number*<br>LDE13U1UMN- | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                              |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -BA088                       | 0.88                     | 20.0                        | 39.8    | 0.98/0.92                                              | 18%/16%              | 80%/81%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA089                       | 0.89                     | 20.0                        | 39.3    | 0.98/0.92                                              | 19%/16%              | 80%/81%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA090                       | 0.90                     | 20.0                        | 38.9    | 0.98/0.92                                              | 19%/16%              | 80%/81%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA091                       | 0.91                     | 20.0                        | 38.5    | 0.98/0.92                                              | 18%/16%              | 80%/81%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA092                       | 0.92                     | 20.0                        | 38.0    | 0.98/0.92                                              | 17%/16%              | 81%/81%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA093                       | 0.93                     | 20.0                        | 37.6    | 0.98/0.92                                              | 17%/16%              | 81%/81%                     | 0.99/0.96                                              | 12%/16%              | 85%/87%                     |
| -BA094                       | 0.94                     | 20.0                        | 37.2    | 0.98/0.92                                              | 17%/16%              | 81%/81%                     | 0.99/0.96                                              | 12%/16%              | 85%/87%                     |
| -BA095                       | 0.95                     | 20.0                        | 36.8    | 0.98/0.92                                              | 17%/15%              | 81%/81%                     | 0.99/0.96                                              | 12%/16%              | 85%/87%                     |
| -BA096                       | 0.96                     | 20.0                        | 36.5    | 0.98/0.92                                              | 17%/16%              | 81%/81%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA097                       | 0.97                     | 20.0                        | 36.1    | 0.98/0.93                                              | 17%/15%              | 81%/81%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA098                       | 0.98                     | 20.0                        | 35.7    | 0.98/0.93                                              | 16%/15%              | 81%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA099                       | 0.99                     | 20.0                        | 35.4    | 0.98/0.93                                              | 16%/15%              | 81%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA100                       | 1.00                     | 20.0                        | 35.0    | 0.98/0.93                                              | 16%/15%              | 81%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA101                       | 1.01                     | 20.0                        | 34.7    | 0.98/0.93                                              | 16%/15%              | 81%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA102                       | 1.02                     | 20.0                        | 34.3    | 0.98/0.93                                              | 16%/15%              | 81%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA103                       | 1.03                     | 20.0                        | 34.0    | 0.98/0.93                                              | 16%/15%              | 81%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA104                       | 1.04                     | 20.0                        | 33.7    | 0.98/0.93                                              | 16%/15%              | 81%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA105                       | 1.05                     | 20.0                        | 33.3    | 0.98/0.93                                              | 16%/15%              | 81%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/87%                     |
| -BA106                       | 1.06                     | 20.0                        | 33.0    | 0.98/0.93                                              | 16%/15%              | 81%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/86%                     |
| -BA107                       | 1.07                     | 20.0                        | 32.7    | 0.98/0.93                                              | 16%/15%              | 81%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/86%                     |
| -BA108                       | 1.08                     | 20.0                        | 32.4    | 0.98/0.93                                              | 16%/15%              | 82%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/86%                     |
| -BA109                       | 1.09                     | 20.0                        | 32.1    | 0.98/0.93                                              | 16%/15%              | 82%/82%                     | 0.99/0.96                                              | 12%/15%              | 85%/86%                     |
| -BA110                       | 1.10                     | 20.0                        | 31.8    | 0.98/0.94                                              | 15%/15%              | 82%/82%                     | 0.99/0.96                                              | 12%/14%              | 85%/86%                     |
| -BA111                       | 1.11                     | 20.0                        | 31.5    | 0.98/0.94                                              | 15%/15%              | 82%/83%                     | 0.99/0.96                                              | 12%/14%              | 85%/86%                     |
| -BA112                       | 1.12                     | 20.0                        | 31.3    | 0.98/0.94                                              | 15%/14%              | 82%/83%                     | 0.99/0.96                                              | 12%/14%              | 85%/86%                     |
| -BA113                       | 1.13                     | 20.0                        | 31.0    | 0.98/0.94                                              | 15%/14%              | 82%/83%                     | 0.99/0.96                                              | 12%/14%              | 85%/86%                     |
| -BA114                       | 1.14                     | 20.0                        | 30.7    | 0.98/0.94                                              | 15%/14%              | 82%/83%                     | 0.99/0.96                                              | 12%/14%              | 84%/86%                     |
| -BA115                       | 1.15                     | 20.0                        | 30.4    | 0.99/0.94                                              | 15%/14%              | 82%/83%                     | 0.99/0.96                                              | 12%/14%              | 85%/86%                     |
| -BA116                       | 1.16                     | 20.0                        | 30.2    | 0.99/0.94                                              | 15%/14%              | 82%/83%                     | 0.99/0.96                                              | 12%/14%              | 84%/86%                     |
| -BA117                       | 1.17                     | 20.0                        | 29.9    | 0.99/0.94                                              | 15%/14%              | 82%/83%                     | 0.99/0.96                                              | 12%/14%              | 84%/86%                     |
| -BA118                       | 1.18                     | 20.0                        | 29.7    | 0.99/0.94                                              | 15%/14%              | 82%/83%                     | 0.99/0.96                                              | 12%/14%              | 84%/86%                     |
| -BA119                       | 1.19                     | 20.0                        | 29.4    | 0.99/0.94                                              | 15%/14%              | 82%/83%                     | 0.99/0.96                                              | 12%/14%              | 84%/86%                     |
| -BA120                       | 1.20                     | 20.0                        | 29.2    | 0.99/0.94                                              | 15%/14%              | 82%/83%                     | 0.99/0.96                                              | 11%/14%              | 84%/86%                     |
| -BA121                       | 1.21                     | 20.0                        | 28.9    | 0.99/0.94                                              | 15%/14%              | 82%/83%                     | 0.99/0.96                                              | 12%/14%              | 84%/86%                     |
| -BA122                       | 1.22                     | 20.0                        | 28.7    | 0.99/0.94                                              | 14%/14%              | 82%/83%                     | 0.99/0.96                                              | 11%/14%              | 84%/86%                     |
| -BA123                       | 1.23                     | 20.0                        | 28.5    | 0.99/0.94                                              | 14%/14%              | 82%/83%                     | 0.99/0.96                                              | 11%/14%              | 84%/86%                     |
| -BA124                       | 1.24                     | 20.0                        | 28.2    | 0.99/0.94                                              | 14%/14%              | 82%/83%                     | 0.99/0.96                                              | 11%/14%              | 84%/86%                     |
| -BA125                       | 1.25                     | 20.0                        | 28.0    | 0.99/0.94                                              | 14%/14%              | 82%/83%                     | 0.99/0.96                                              | 11%/14%              | 84%/86%                     |

\* See How to Build a Model Number, M-Case Type page for a sample model number.

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## M-Case Models: "C" Output Range

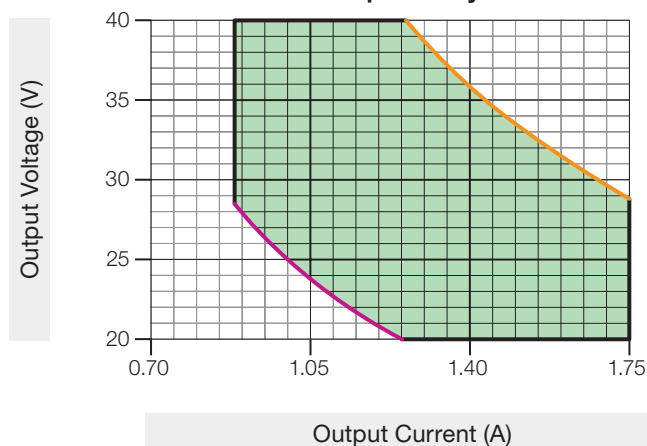
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                 | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 20–40 V $\sim$ | 0.88–1.75 A    | 25–50 W      |   | 75 °C                                    |

\* BLK model LDE15U1UMN-CABLK is NOM certified and available for Mexico.

## Typical Performance Specifications

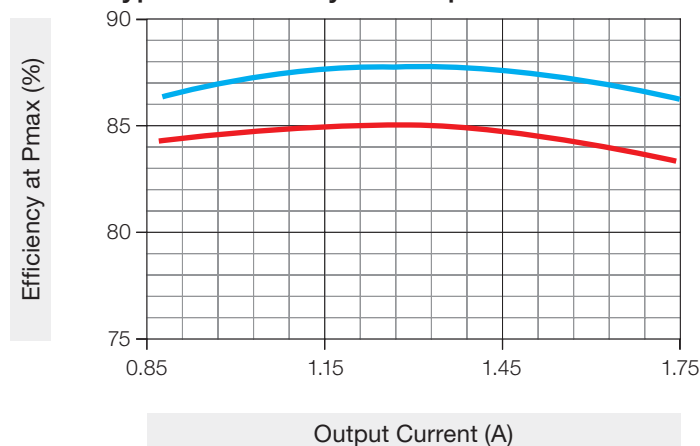
| Parameter         | Value  | Test Conditions                                                                                                                                             |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.21 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 1.25\text{ A}$ , $V_o = 40\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE15U1UMN-CA125 |
| Power Factor      | 0.97   |                                                                                                                                                             |
| THD               | 13%    |                                                                                                                                                             |
| Driver Efficiency | 88%    |                                                                                                                                                             |

Load Compatibility



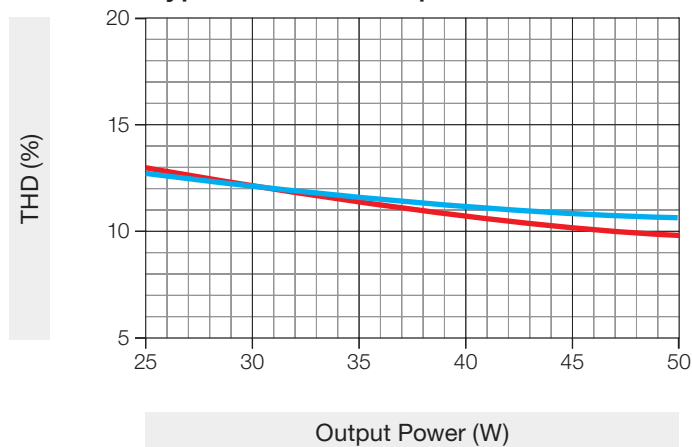
Key:  Shaded area meets DLC Version 2.1 (areas outside of shaded areas may not meet THD or PF requirements).  
 Constant 25 W output  Constant 50 W output

Typical Efficiency vs. Output Current



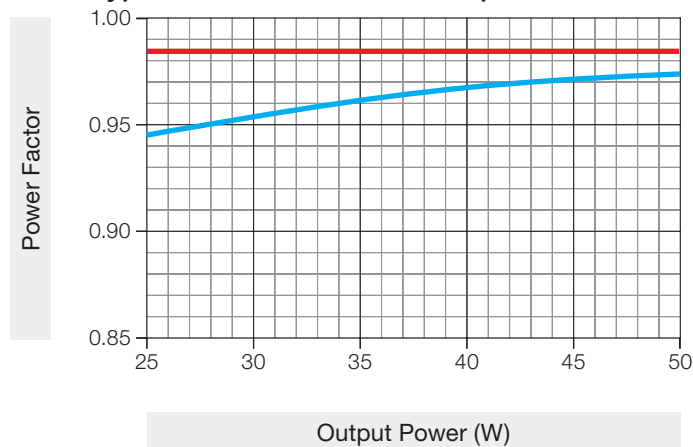
Key:  120 V $\sim$   277 V $\sim$

Typical THD vs. Output Power



Key:  120 V $\sim$   277 V $\sim$

Typical Power Factor vs. Output Power



Key:  120 V $\sim$   277 V $\sim$

 SPECIFICATION SUBMITTAL

Page

Job Name:

Model Numbers:

Job Number:

## M-Case Models: "C" Output Range (continued)

| Model number*<br>LDE15U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -CA088                       | 0.88                           | 28.4                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 12%/10%                     | 83%/87%                               |
| -CA089                       | 0.89                           | 28.1                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 11%/10%                     | 85%/87%                               |
| -CA090                       | 0.90                           | 27.8                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 11%/10%                     | 85%/87%                               |
| -CA091                       | 0.91                           | 27.5                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 11%/10%                     | 85%/87%                               |
| -CA092                       | 0.92                           | 27.2                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 11%/10%                     | 85%/87%                               |
| -CA093                       | 0.93                           | 26.9                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 11%/10%                     | 85%/87%                               |
| -CA094                       | 0.94                           | 26.6                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/87%                               |
| -CA095                       | 0.95                           | 26.3                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/87%                               |
| -CA096                       | 0.96                           | 26.0                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/88%                               |
| -CA097                       | 0.97                           | 25.8                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/88%                               |
| -CA098                       | 0.98                           | 25.5                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/88%                               |
| -CA099                       | 0.99                           | 25.3                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/88%                               |
| -CA100                       | 1.00                           | 25.0                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/88%                               |
| -CA101                       | 1.01                           | 24.8                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/88%                               |
| -CA102                       | 1.02                           | 24.5                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/88%                               |
| -CA103                       | 1.03                           | 24.3                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/88%                               |
| -CA104                       | 1.04                           | 24.0                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/88%                               |
| -CA105                       | 1.05                           | 23.8                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/88%                               |
| -CA106                       | 1.06                           | 23.6                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 85%/88%                               |
| -CA107                       | 1.07                           | 23.4                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.97                                                 | 10%/10%                     | 86%/88%                               |
| -CA108                       | 1.08                           | 23.2                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.98                                                 | 10%/10%                     | 85%/88%                               |
| -CA109                       | 1.09                           | 22.9                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.98                                                 | 10%/10%                     | 85%/88%                               |
| -CA110                       | 1.10                           | 22.7                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.98                                                 | 10%/10%                     | 85%/88%                               |
| -CA111                       | 1.11                           | 22.5                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.98                                                 | 10%/10%                     | 85%/88%                               |
| -CA112                       | 1.12                           | 22.3                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA113                       | 1.13                           | 22.1                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA114                       | 1.14                           | 21.9                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA115                       | 1.15                           | 21.7                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA116                       | 1.16                           | 21.6                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/88%                               |
| -CA117                       | 1.17                           | 21.4                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 81%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/88%                               |
| -CA118                       | 1.18                           | 21.2                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/88%                               |
| -CA119                       | 1.19                           | 21.0                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/88%                               |
| -CA120                       | 1.20                           | 20.8                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/88%                               |
| -CA121                       | 1.21                           | 20.7                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/88%                               |
| -CA122                       | 1.22                           | 20.5                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/88%                               |
| -CA123                       | 1.23                           | 20.3                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/88%                               |
| -CA124                       | 1.24                           | 20.2                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/88%                               |
| -CA125                       | 1.25                           | 20.0                           | 40.0    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/88%                               |

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## M-Case Models: "C" Output Range (continued)

| Model number*<br>LDE15U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -CA126                       | 1.26                           | 20.0                           | 39.7    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/89%                               |
| -CA127                       | 1.27                           | 20.0                           | 39.4    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/89%                               |
| -CA128                       | 1.28                           | 20.0                           | 39.1    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/88%                               |
| -CA129                       | 1.29                           | 20.0                           | 38.8    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA130                       | 1.30                           | 20.0                           | 38.5    | 0.99/0.95                                                 | 12%/11%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA131                       | 1.31                           | 20.0                           | 38.2    | 0.99/0.95                                                 | 12%/12%                     | 81%/83%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA132                       | 1.32                           | 20.0                           | 37.9    | 0.99/0.95                                                 | 12%/12%                     | 81%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA133                       | 1.33                           | 20.0                           | 37.6    | 0.99/0.95                                                 | 12%/12%                     | 81%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA134                       | 1.34                           | 20.0                           | 37.3    | 0.99/0.95                                                 | 12%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA135                       | 1.35                           | 20.0                           | 37.0    | 0.99/0.95                                                 | 12%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA136                       | 1.36                           | 20.0                           | 36.8    | 0.99/0.95                                                 | 12%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA137                       | 1.37                           | 20.0                           | 36.5    | 0.99/0.95                                                 | 11%/12%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA138                       | 1.38                           | 20.0                           | 36.2    | 0.99/0.95                                                 | 11%/12%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA139                       | 1.39                           | 20.0                           | 36.0    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA140                       | 1.40                           | 20.0                           | 35.7    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA141                       | 1.41                           | 20.0                           | 35.5    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA142                       | 1.42                           | 20.0                           | 35.2    | 0.99/0.96                                                 | 11%/12%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/9%                       | 85%/88%                               |
| -CA143                       | 1.43                           | 20.0                           | 35.0    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA144                       | 1.44                           | 20.0                           | 34.7    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA145                       | 1.45                           | 20.0                           | 34.5    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA146                       | 1.46                           | 20.0                           | 34.3    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA147                       | 1.47                           | 20.0                           | 34.0    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA148                       | 1.48                           | 20.0                           | 33.8    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA149                       | 1.49                           | 20.0                           | 33.6    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA150                       | 1.50                           | 20.0                           | 33.3    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA151                       | 1.51                           | 20.0                           | 33.1    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA152                       | 1.52                           | 20.0                           | 32.9    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA153                       | 1.53                           | 20.0                           | 32.7    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA154                       | 1.54                           | 20.0                           | 32.5    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA155                       | 1.55                           | 20.0                           | 32.3    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA156                       | 1.56                           | 20.0                           | 32.1    | 0.99/0.96                                                 | 11%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA157                       | 1.57                           | 20.0                           | 31.9    | 0.99/0.96                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/88%                               |
| -CA158                       | 1.58                           | 20.0                           | 31.7    | 0.99/0.96                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 85%/87%                               |
| -CA159                       | 1.59                           | 20.0                           | 31.5    | 0.99/0.96                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA160                       | 1.60                           | 20.0                           | 31.3    | 0.99/0.96                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA161                       | 1.61                           | 20.0                           | 31.1    | 0.99/0.96                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA162                       | 1.62                           | 20.0                           | 30.9    | 0.99/0.96                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA163                       | 1.63                           | 20.0                           | 30.7    | 0.99/0.96                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |

Job Name:

Model Numbers:

Job Number:

M-Case Models: “C” Output Range (*continued*)

| Model number*<br>LDE15U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -CA164                       | 1.64                           | 20.0                           | 30.5    | 0.99/0.96                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA165                       | 1.65                           | 20.0                           | 30.3    | 0.99/0.96                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA166                       | 1.66                           | 20.0                           | 30.1    | 0.99/0.96                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA167                       | 1.67                           | 20.0                           | 29.9    | 0.99/0.96                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA168                       | 1.68                           | 20.0                           | 29.8    | 0.99/0.97                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA169                       | 1.69                           | 20.0                           | 29.6    | 0.99/0.97                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA170                       | 1.70                           | 20.0                           | 29.4    | 0.99/0.97                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA171                       | 1.71                           | 20.0                           | 29.2    | 0.99/0.97                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA172                       | 1.72                           | 20.0                           | 29.1    | 0.99/0.97                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA173                       | 1.73                           | 20.0                           | 28.9    | 0.99/0.97                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA174                       | 1.74                           | 20.0                           | 28.7    | 0.99/0.97                                                 | 10%/11%                     | 82%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |
| -CA175                       | 1.75                           | 20.0                           | 28.6    | 0.99/0.97                                                 | 11%/11%                     | 81%/84%                               | 0.99/0.98                                                 | 9%/10%                      | 84%/87%                               |

\* See [How to Build a Model Number, M-Case Type](#) page for a sample model number.

Job Name:

Model Numbers:

Job Number:



## M-Case Models: "D" Output Range

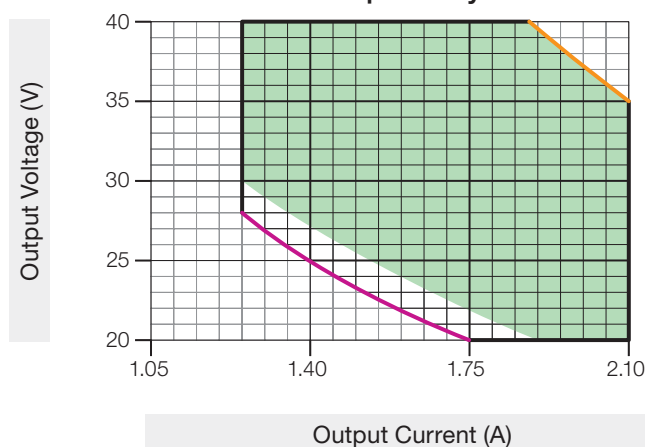
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                              | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 20–40 V $\sim$ | 1.25–2.10 A    | 35–75 W      |  | 75 °C                                    |

\* BLK model LDE17U1UMN-DABLK is NOM certified and available for Mexico.

## Typical Performance Specifications

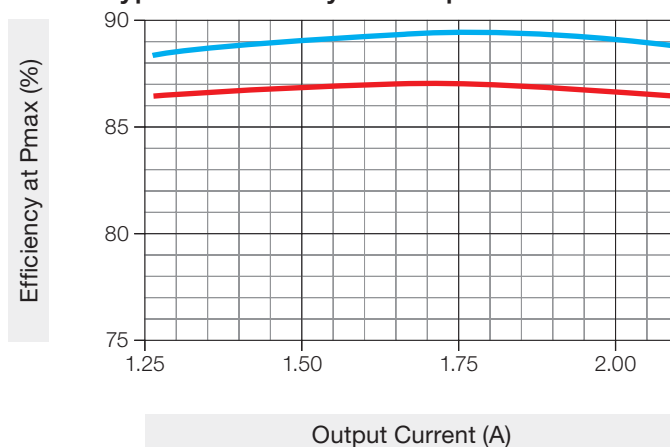
| Parameter         | Value  | Test Conditions                                                                                                                                             |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.31 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 1.88\text{ A}$ , $V_o = 40\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE17U1UMN-DA188 |
| Power Factor      | 0.95   |                                                                                                                                                             |
| THD               | 13%    |                                                                                                                                                             |
| Driver Efficiency | 89%    |                                                                                                                                                             |

Load Compatibility



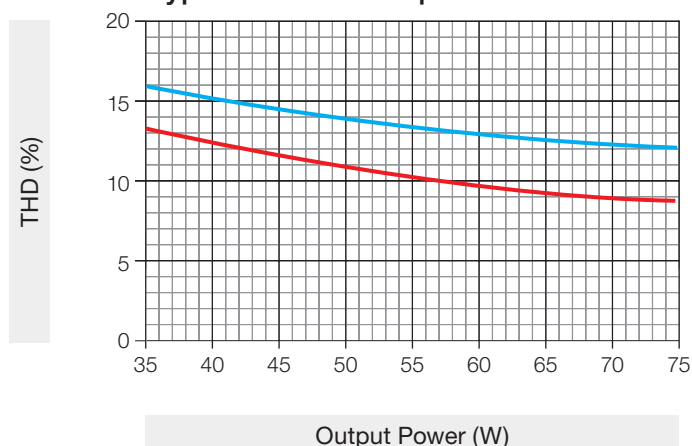
Key:   
 Shaded area meets DLC Version 2.1 (areas outside of shaded areas may not meet THD or PF requirements).  
 Constant 35 W output  Constant 75 W output

Typical Efficiency vs. Output Current



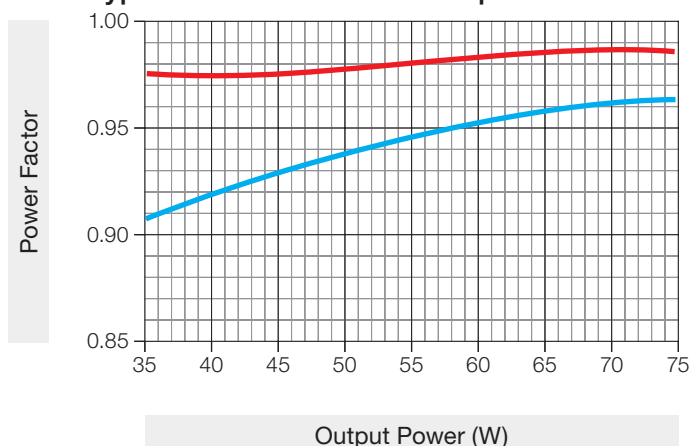
Key:  120 V~  277 V~

Typical THD vs. Output Power



Key:  120 V~  277 V~

Typical Power Factor vs. Output Power



Key:  120 V~  277 V~

Job Name:

Model Numbers:

Job Number:



## M-Case Models: “D” Output Range (continued)

| Model number*<br>LDE17U1UMN- | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                              |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -DA125                       | 1.25                     | 28.0                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/86%                     | 0.98/0.94                                              | 10%/13%              | 87%/89%                     |
| -DA126                       | 1.26                     | 27.8                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/86%                     | 0.98/0.95                                              | 10%/13%              | 87%/89%                     |
| -DA127                       | 1.27                     | 27.6                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/86%                     | 0.98/0.95                                              | 10%/13%              | 87%/89%                     |
| -DA128                       | 1.28                     | 27.3                        | 40.0    | 0.98/0.91                                              | 13%/16%              | 84%/85%                     | 0.98/0.95                                              | 10%/13%              | 87%/89%                     |
| -DA129                       | 1.29                     | 27.1                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.98/0.95                                              | 10%/13%              | 87%/89%                     |
| -DA130                       | 1.30                     | 26.9                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.98/0.95                                              | 10%/13%              | 87%/89%                     |
| -DA131                       | 1.31                     | 26.7                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.98/0.95                                              | 9%/13%               | 87%/89%                     |
| -DA132                       | 1.32                     | 26.5                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.98/0.95                                              | 9%/13%               | 87%/89%                     |
| -DA133                       | 1.33                     | 26.3                        | 40.0    | 0.98/0.91                                              | 12%/15%              | 84%/85%                     | 0.98/0.95                                              | 9%/13%               | 87%/89%                     |
| -DA134                       | 1.34                     | 26.1                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.98/0.95                                              | 9%/13%               | 87%/89%                     |
| -DA135                       | 1.35                     | 25.9                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.98/0.95                                              | 9%/13%               | 87%/89%                     |
| -DA136                       | 1.36                     | 25.7                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.98/0.95                                              | 9%/12%               | 87%/89%                     |
| -DA137                       | 1.37                     | 25.6                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.98/0.95                                              | 9%/12%               | 87%/89%                     |
| -DA138                       | 1.38                     | 25.4                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.98/0.95                                              | 9%/12%               | 87%/89%                     |
| -DA139                       | 1.39                     | 25.2                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -DA140                       | 1.40                     | 25.0                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -DA141                       | 1.41                     | 24.8                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -DA142                       | 1.42                     | 24.7                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -DA143                       | 1.43                     | 24.5                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -DA144                       | 1.44                     | 24.3                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -DA145                       | 1.45                     | 24.1                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -DA146                       | 1.46                     | 24.0                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.96                                              | 9%/12%               | 87%/90%                     |
| -DA147                       | 1.47                     | 23.8                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.96                                              | 9%/12%               | 87%/89%                     |
| -DA148                       | 1.48                     | 23.7                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.96                                              | 9%/12%               | 87%/90%                     |
| -DA149                       | 1.49                     | 23.5                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.96                                              | 9%/12%               | 87%/89%                     |
| -DA150                       | 1.50                     | 23.3                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.96                                              | 9%/12%               | 87%/90%                     |
| -DA151                       | 1.51                     | 23.2                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.96                                              | 9%/12%               | 87%/90%                     |
| -DA152                       | 1.52                     | 23.0                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.96                                              | 8%/12%               | 87%/90%                     |
| -DA153                       | 1.53                     | 22.9                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.96                                              | 8%/12%               | 87%/90%                     |
| -DA154                       | 1.54                     | 22.7                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.96                                              | 8%/12%               | 87%/90%                     |
| -DA155                       | 1.55                     | 22.6                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 84%/85%                     | 0.99/0.96                                              | 8%/12%               | 87%/90%                     |
| -DA156                       | 1.56                     | 22.4                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 83%/85%                     | 0.99/0.96                                              | 8%/12%               | 87%/90%                     |
| -DA157                       | 1.57                     | 22.3                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 83%/85%                     | 0.99/0.96                                              | 8%/12%               | 87%/90%                     |
| -DA158                       | 1.58                     | 22.2                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 83%/85%                     | 0.99/0.96                                              | 8%/12%               | 87%/90%                     |
| -DA159                       | 1.59                     | 22.0                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 83%/85%                     | 0.99/0.96                                              | 8%/12%               | 87%/90%                     |
| -DA160                       | 1.60                     | 21.9                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 83%/85%                     | 0.99/0.96                                              | 8%/12%               | 87%/90%                     |
| -DA161                       | 1.61                     | 21.7                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 83%/84%                     | 0.99/0.96                                              | 8%/12%               | 87%/90%                     |
| -DA162                       | 1.62                     | 21.6                        | 40.0    | 0.98/0.91                                              | 12%/16%              | 83%/84%                     | 0.99/0.96                                              | 8%/12%               | 87%/90%                     |

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## M-Case Models: “D” Output Range (continued)

| Model number*<br>LDE17U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -DA163                       | 1.63                           | 21.5                           | 40.0    | 0.98/0.91                                                 | 12%/15%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA164                       | 1.64                           | 21.3                           | 40.0    | 0.98/0.91                                                 | 12%/15%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA165                       | 1.65                           | 21.2                           | 40.0    | 0.98/0.91                                                 | 12%/16%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA166                       | 1.66                           | 21.1                           | 40.0    | 0.98/0.90                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA167                       | 1.67                           | 21.0                           | 40.0    | 0.98/0.91                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA168                       | 1.68                           | 20.8                           | 40.0    | 0.98/0.91                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA169                       | 1.69                           | 20.7                           | 40.0    | 0.98/0.9                                                  | 12%/14%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA170                       | 1.70                           | 20.6                           | 40.0    | 0.98/0.91                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA171                       | 1.71                           | 20.5                           | 40.0    | 0.98/0.91                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA172                       | 1.72                           | 20.4                           | 40.0    | 0.98/0.91                                                 | 13%/14%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA173                       | 1.73                           | 20.2                           | 40.0    | 0.98/0.91                                                 | 13%/14%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA174                       | 1.74                           | 20.1                           | 40.0    | 0.98/0.91                                                 | 13%/15%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA175                       | 1.75                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 12%/15%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 87%/90%                               |
| -DA176                       | 1.76                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 12%/15%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/12%                      | 88%/90%                               |
| -DA177                       | 1.77                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 12%/15%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/11%                      | 88%/90%                               |
| -DA178                       | 1.78                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.96                                                 | 8%/11%                      | 88%/90%                               |
| -DA179                       | 1.79                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 12%/15%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 88%/90%                               |
| -DA180                       | 1.80                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 12%/15%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 88%/90%                               |
| -DA181                       | 1.81                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 12%/15%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 88%/90%                               |
| -DA182                       | 1.82                           | 20.0                           | 40.0    | 0.98/0.91                                                 | 12%/15%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 88%/90%                               |
| -DA183                       | 1.83                           | 20.0                           | 40.0    | 0.98/0.92                                                 | 12%/15%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 88%/90%                               |
| -DA184                       | 1.84                           | 20.0                           | 40.0    | 0.98/0.92                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 88%/90%                               |
| -DA185                       | 1.85                           | 20.0                           | 40.0    | 0.98/0.92                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 88%/90%                               |
| -DA186                       | 1.86                           | 20.0                           | 40.0    | 0.98/0.92                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 88%/90%                               |
| -DA187                       | 1.87                           | 20.0                           | 40.0    | 0.98/0.92                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 88%/90%                               |
| -DA188                       | 1.88                           | 20.0                           | 39.9    | 0.98/0.92                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 88%/90%                               |
| -DA189                       | 1.89                           | 20.0                           | 39.7    | 0.98/0.92                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |
| -DA190                       | 1.90                           | 20.0                           | 39.5    | 0.98/0.92                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |
| -DA191                       | 1.91                           | 20.0                           | 39.3    | 0.98/0.92                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |
| -DA192                       | 1.92                           | 20.0                           | 39.1    | 0.98/0.92                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |
| -DA193                       | 1.93                           | 20.0                           | 38.9    | 0.98/0.92                                                 | 12%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |
| -DA194                       | 1.94                           | 20.0                           | 38.7    | 0.98/0.92                                                 | 12%/13%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |
| -DA195                       | 1.95                           | 20.0                           | 38.5    | 0.98/0.92                                                 | 12%/13%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |
| -DA196                       | 1.96                           | 20.0                           | 38.3    | 0.98/0.92                                                 | 11%/13%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |
| -DA197                       | 1.97                           | 20.0                           | 38.1    | 0.98/0.92                                                 | 11%/13%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |
| -DA198                       | 1.98                           | 20.0                           | 37.9    | 0.98/0.92                                                 | 11%/13%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |
| -DA199                       | 1.99                           | 20.0                           | 37.7    | 0.98/0.92                                                 | 11%/13%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |
| -DA200                       | 2.00                           | 20.0                           | 37.5    | 0.98/0.93                                                 | 11%/13%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/11%                      | 87%/90%                               |

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

M-Case Models: “D” Output Range (*continued*)

| Model number*<br>LDE17U1UMN- | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                              |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -DA201                       | 2.01                     | 20.0                        | 37.3    | 0.98/0.93                                              | 11%/13%              | 83%/84%                     | 0.99/0.97                                              | 8%/11%               | 87%/89%                     |
| -DA202                       | 2.02                     | 20.0                        | 37.1    | 0.98/0.93                                              | 11%/13%              | 83%/84%                     | 0.99/0.97                                              | 8%/11%               | 87%/89%                     |
| -DA203                       | 2.03                     | 20.0                        | 37.0    | 0.98/0.93                                              | 11%/13%              | 83%/84%                     | 0.99/0.97                                              | 8%/11%               | 87%/89%                     |
| -DA204                       | 2.04                     | 20.0                        | 36.8    | 0.98/0.93                                              | 11%/13%              | 83%/84%                     | 0.99/0.97                                              | 8%/11%               | 87%/89%                     |
| -DA205                       | 2.05                     | 20.0                        | 36.6    | 0.98/0.93                                              | 11%/13%              | 83%/84%                     | 0.99/0.97                                              | 8%/11%               | 87%/89%                     |
| -DA206                       | 2.06                     | 20.0                        | 36.4    | 0.98/0.93                                              | 11%/13%              | 83%/84%                     | 0.99/0.97                                              | 8%/11%               | 87%/89%                     |
| -DA207                       | 2.07                     | 20.0                        | 36.2    | 0.98/0.93                                              | 11%/13%              | 83%/84%                     | 0.99/0.97                                              | 8%/11%               | 87%/89%                     |
| -DA208                       | 2.08                     | 20.0                        | 36.1    | 0.98/0.93                                              | 11%/13%              | 83%/84%                     | 0.99/0.97                                              | 8%/11%               | 87%/89%                     |
| -DA209                       | 2.09                     | 20.0                        | 35.9    | 0.98/0.93                                              | 11%/13%              | 83%/84%                     | 0.99/0.97                                              | 8%/11%               | 86%/89%                     |
| -DA210                       | 2.10                     | 20.0                        | 35.7    | 0.98/0.93                                              | 11%/13%              | 83%/84%                     | 0.99/0.97                                              | 8%/11%               | 87%/89%                     |

\* See [How to Build a Model Number, M-Case Type](#) page for a sample model number.

Job Name:

Model Numbers:

Job Number:

## M-Case Models: "J" Output Range

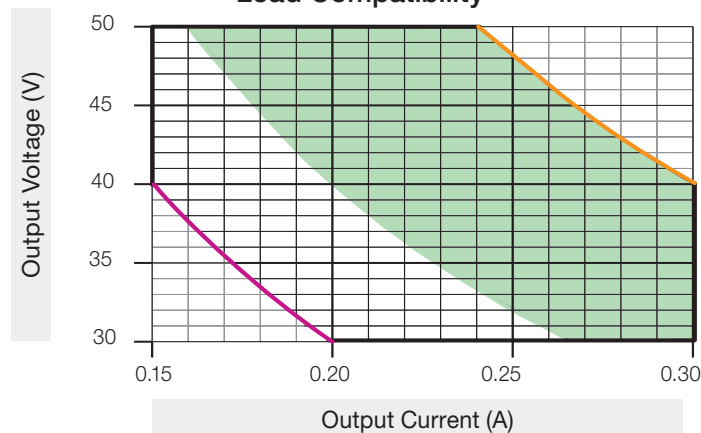
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                  | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 30–50 V $\sim$ | 0.15–0.30 A    | 6–12 W       |   | 75 °C                                    |

\* BLK model LDE11U1UMN-JABLK is NOM certified and available for Mexico.

## Typical Performance Specifications:

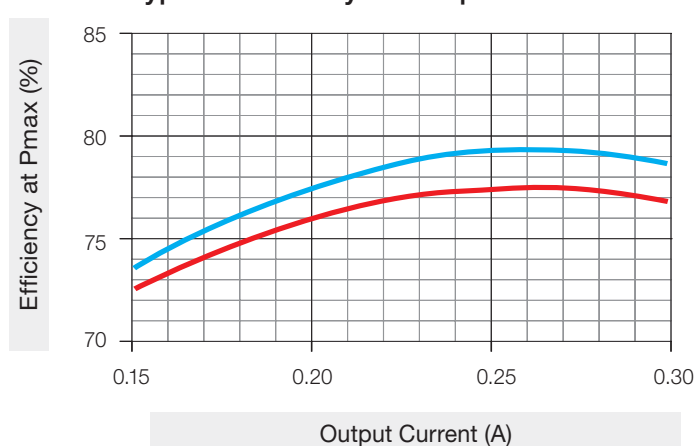
| Parameter         | Value  | Test Conditions                                                                                                                                             |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.06 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 0.24\text{ A}$ , $V_o = 50\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE11U1UMN-JA024 |
| Power Factor      | 0.93   |                                                                                                                                                             |
| THD               | 19%    |                                                                                                                                                             |
| Driver Efficiency | 79%    |                                                                                                                                                             |

Load Compatibility



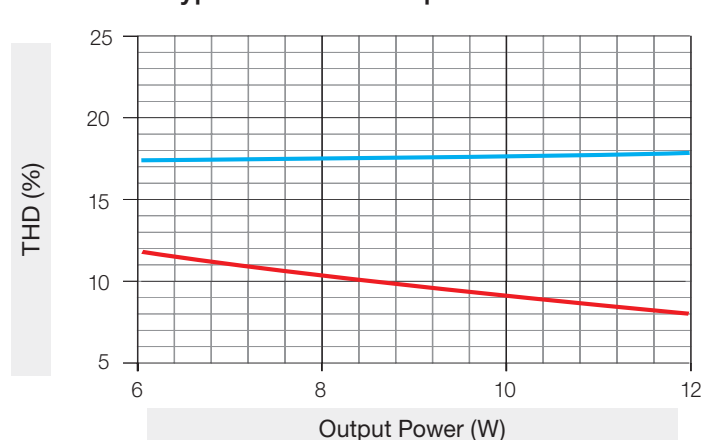
Key:   
 Shaded area meets DLC Version 2.1 (areas outside of shaded areas may not meet THD or PF requirements).  
 Constant 6 W output     Constant 12 W output

Typical Efficiency vs. Output Current



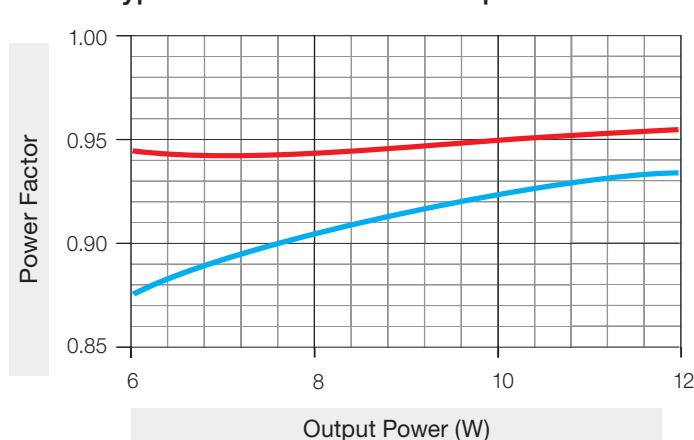
Key:  120 V $\sim$      277 V $\sim$

Typical THD vs. Output Power



Key:  120 V $\sim$      277 V $\sim$

Typical Power Factor vs. Output Power



Key:  120 V $\sim$      277 V $\sim$

Job Name:

Model Numbers:

Job Number:

## M-Case Models: “J” Output Range (continued)

| Model number*<br>LDE11U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -JA015                       | 0.15                           | 40.0                           | 50.0    | 0.95/0.88                                                 | 11%/16%                     | 70%/70%                               | 0.95/0.90                                                 | 10%/16%                     | 73%/74%                               |
| -JA016                       | 0.16                           | 37.5                           | 50.0    | 0.95/0.88                                                 | 11%/16%                     | 70%/70%                               | 0.95/0.91                                                 | 9%/16%                      | 74%/75%                               |
| -JA017                       | 0.17                           | 35.3                           | 50.0    | 0.95/0.88                                                 | 11%/16%                     | 70%/70%                               | 0.95/0.92                                                 | 9%/16%                      | 75%/76%                               |
| -JA018                       | 0.18                           | 33.3                           | 50.0    | 0.95/0.88                                                 | 11%/16%                     | 70%/70%                               | 0.95/0.92                                                 | 9%/16%                      | 75%/77%                               |
| -JA019                       | 0.19                           | 31.6                           | 50.0    | 0.95/0.88                                                 | 11%/16%                     | 70%/70%                               | 0.95/0.92                                                 | 9%/17%                      | 76%/77%                               |
| -JA020                       | 0.20                           | 30.0                           | 50.0    | 0.95/0.88                                                 | 11%/16%                     | 69%/70%                               | 0.96/0.93                                                 | 8%/16%                      | 77%/78%                               |
| -JA021                       | 0.21                           | 30.0                           | 50.0    | 0.95/0.88                                                 | 11%/16%                     | 69%/70%                               | 0.96/0.93                                                 | 8%/17%                      | 77%/78%                               |
| -JA022                       | 0.22                           | 30.0                           | 50.0    | 0.95/0.88                                                 | 11%/16%                     | 69%/69%                               | 0.96/0.93                                                 | 7%/17%                      | 77%/79%                               |
| -JA023                       | 0.23                           | 30.0                           | 50.0    | 0.95/0.88                                                 | 11%/16%                     | 69%/69%                               | 0.96/0.94                                                 | 7%/17%                      | 78%/79%                               |
| -JA024                       | 0.24                           | 30.0                           | 50.0    | 0.95/0.88                                                 | 11%/17%                     | 69%/70%                               | 0.96/0.94                                                 | 7%/17%                      | 78%/80%                               |
| -JA025                       | 0.25                           | 30.0                           | 48.0    | 0.95/0.90                                                 | 10%/17%                     | 72%/73%                               | 0.96/0.94                                                 | 7%/17%                      | 78%/80%                               |
| -JA026                       | 0.26                           | 30.0                           | 46.2    | 0.95/0.91                                                 | 9%/17%                      | 73%/73%                               | 0.96/0.94                                                 | 7%/17%                      | 78%/80%                               |
| -JA027                       | 0.27                           | 30.0                           | 44.4    | 0.95/0.91                                                 | 9%/17%                      | 73%/74%                               | 0.96/0.94                                                 | 7%/17%                      | 78%/80%                               |
| -JA028                       | 0.28                           | 30.0                           | 42.9    | 0.95/0.92                                                 | 9%/17%                      | 73%/74%                               | 0.96/0.94                                                 | 7%/17%                      | 78%/80%                               |
| -JA029                       | 0.29                           | 30.0                           | 41.4    | 0.95/0.92                                                 | 9%/17%                      | 74%/75%                               | 0.96/0.94                                                 | 7%/17%                      | 78%/79%                               |
| -JA030                       | 0.30                           | 30.0                           | 40.0    | 0.95/0.92                                                 | 9%/17%                      | 74%/75%                               | 0.96/0.94                                                 | 7%/17%                      | 77%/79%                               |

\* See [How to Build a Model Number, M-Case Type](#) page for a sample model number.



Job Name:

Model Numbers:

Job Number:

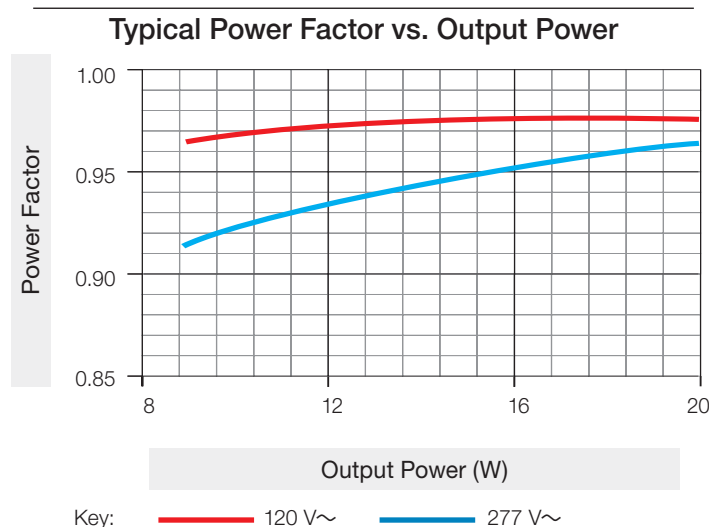
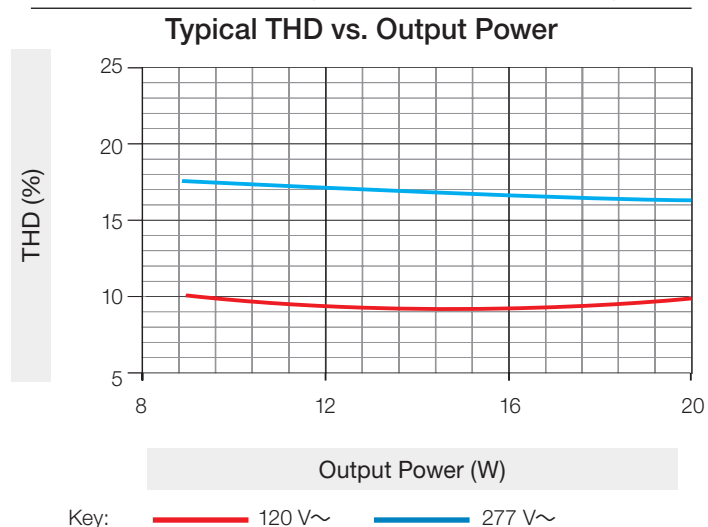
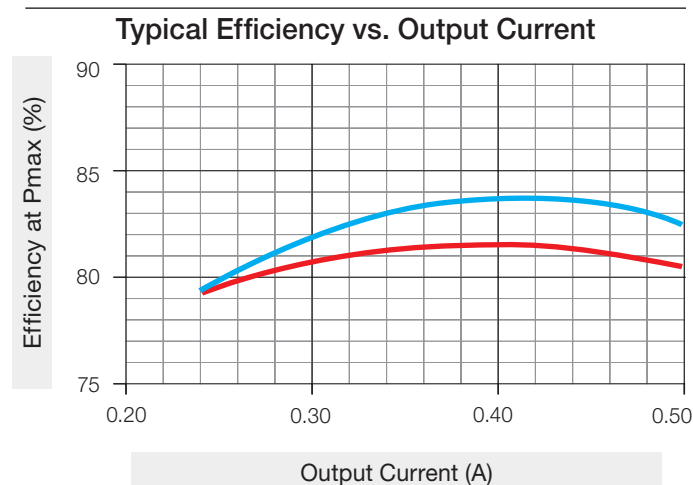
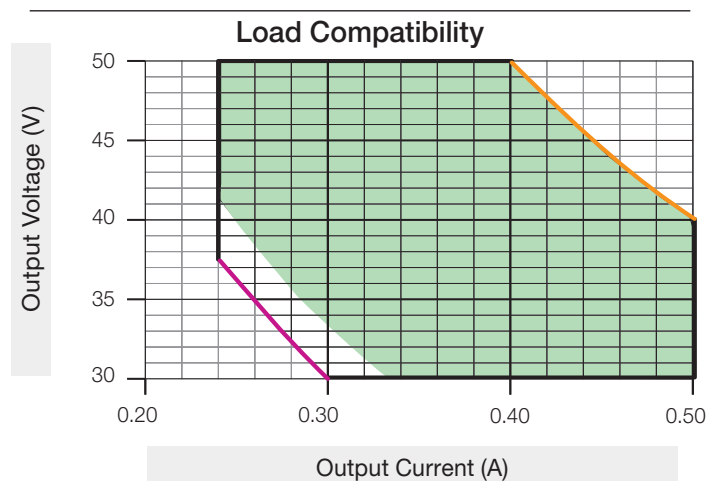
## M-Case Models: "K" Output Range

| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                 | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 30–50 V $\sim$ | 0.24–0.50 A    | 9–20 W       |   | 75 °C                                    |

\* BLK model LDE12U1UMN-KABLK is NOM certified and available for Mexico.

## Typical Performance Specifications:

| Parameter         | Value  | Test Conditions                                                                                                                                             |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.09 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 0.40\text{ A}$ , $V_o = 50\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE12U1UMN-KA040 |
| Power Factor      | 0.96   |                                                                                                                                                             |
| THD               | 18%    |                                                                                                                                                             |
| Driver Efficiency | 84%    |                                                                                                                                                             |



|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## M-Case Models: “K” Output Range (continued)

| Model number*<br>LDE12U1UMN- | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                              |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -KA024                       | 0.24                     | 37.5                        | 50.0    | 0.97/0.91                                              | 9%/17%               | 77%/76%                     | 0.98/0.94                                              | 9%/16%               | 80%/81%                     |
| -KA025                       | 0.25                     | 36.0                        | 50.0    | 0.97/0.92                                              | 9%/17%               | 77%/76%                     | 0.98/0.94                                              | 9%/16%               | 80%/81%                     |
| -KA026                       | 0.26                     | 34.6                        | 50.0    | 0.97/0.92                                              | 9%/17%               | 77%/76%                     | 0.98/0.95                                              | 8%/16%               | 80%/81%                     |
| -KA027                       | 0.27                     | 33.3                        | 50.0    | 0.97/0.92                                              | 9%/17%               | 77%/76%                     | 0.98/0.95                                              | 8%/16%               | 81%/82%                     |
| -KA028                       | 0.28                     | 32.1                        | 50.0    | 0.97/0.92                                              | 9%/17%               | 76%/76%                     | 0.98/0.95                                              | 8%/16%               | 81%/82%                     |
| -KA029                       | 0.29                     | 31.0                        | 50.0    | 0.97/0.92                                              | 9%/17%               | 76%/76%                     | 0.98/0.95                                              | 8%/16%               | 81%/82%                     |
| -KA030                       | 0.30                     | 30.0                        | 50.0    | 0.97/0.92                                              | 9%/17%               | 76%/76%                     | 0.98/0.95                                              | 8%/16%               | 81%/83%                     |
| -KA031                       | 0.31                     | 30.0                        | 50.0    | 0.97/0.92                                              | 9%/17%               | 76%/76%                     | 0.98/0.96                                              | 8%/16%               | 81%/83%                     |
| -KA032                       | 0.32                     | 30.0                        | 50.0    | 0.97/0.92                                              | 9%/16%               | 76%/76%                     | 0.98/0.96                                              | 8%/16%               | 82%/83%                     |
| -KA033                       | 0.33                     | 30.0                        | 50.0    | 0.97/0.92                                              | 9%/16%               | 76%/76%                     | 0.98/0.96                                              | 8%/16%               | 82%/83%                     |
| -KA034                       | 0.34                     | 30.0                        | 50.0    | 0.97/0.92                                              | 9%/16%               | 76%/75%                     | 0.98/0.96                                              | 9%/16%               | 82%/84%                     |
| -KA035                       | 0.35                     | 30.0                        | 50.0    | 0.97/0.92                                              | 9%/16%               | 76%/75%                     | 0.98/0.96                                              | 9%/16%               | 82%/84%                     |
| -KA036                       | 0.36                     | 30.0                        | 50.0    | 0.97/0.92                                              | 9%/16%               | 75%/75%                     | 0.98/0.96                                              | 9%/15%               | 82%/84%                     |
| -KA037                       | 0.37                     | 30.0                        | 50.0    | 0.97/0.92                                              | 9%/16%               | 75%/75%                     | 0.98/0.96                                              | 9%/16%               | 82%/84%                     |
| -KA038                       | 0.38                     | 30.0                        | 50.0    | 0.97/0.92                                              | 9%/16%               | 75%/75%                     | 0.98/0.96                                              | 9%/15%               | 82%/84%                     |
| -KA039                       | 0.39                     | 30.0                        | 50.0    | 0.97/0.92                                              | 9%/16%               | 75%/75%                     | 0.98/0.97                                              | 9%/15%               | 82%/84%                     |
| -KA040                       | 0.40                     | 30.0                        | 50.0    | 0.97/0.92                                              | 9%/16%               | 75%/75%                     | 0.98/0.97                                              | 9%/15%               | 82%/84%                     |
| -KA041                       | 0.41                     | 30.0                        | 48.8    | 0.97/0.94                                              | 9%/16%               | 78%/79%                     | 0.98/0.97                                              | 9%/15%               | 82%/84%                     |
| -KA042                       | 0.42                     | 30.0                        | 47.6    | 0.98/0.94                                              | 9%/16%               | 78%/79%                     | 0.98/0.97                                              | 9%/15%               | 82%/84%                     |
| -KA043                       | 0.43                     | 30.0                        | 46.5    | 0.98/0.95                                              | 8%/16%               | 78%/79%                     | 0.98/0.97                                              | 9%/15%               | 82%/84%                     |
| -KA044                       | 0.44                     | 30.0                        | 45.5    | 0.98/0.95                                              | 8%/16%               | 78%/79%                     | 0.98/0.97                                              | 9%/15%               | 82%/84%                     |
| -KA045                       | 0.45                     | 30.0                        | 44.4    | 0.98/0.95                                              | 8%/16%               | 79%/80%                     | 0.98/0.97                                              | 9%/15%               | 82%/84%                     |
| -KA046                       | 0.46                     | 30.0                        | 43.5    | 0.98/0.95                                              | 8%/16%               | 79%/80%                     | 0.98/0.97                                              | 9%/15%               | 81%/84%                     |
| -KA047                       | 0.47                     | 30.0                        | 42.6    | 0.98/0.95                                              | 8%/16%               | 79%/80%                     | 0.98/0.97                                              | 9%/15%               | 81%/84%                     |
| -KA048                       | 0.48                     | 30.0                        | 41.7    | 0.98/0.95                                              | 8%/16%               | 79%/80%                     | 0.98/0.97                                              | 9%/15%               | 81%/84%                     |
| -KA049                       | 0.49                     | 30.0                        | 40.8    | 0.98/0.95                                              | 8%/16%               | 79%/80%                     | 0.98/0.97                                              | 9%/15%               | 81%/83%                     |
| -KA050                       | 0.50                     | 30.0                        | 40.0    | 0.98/0.96                                              | 8%/16%               | 79%/80%                     | 0.98/0.97                                              | 9%/15%               | 81%/83%                     |

\* See [How to Build a Model Number, M-Case Type](#) page for a sample model number.

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |



## M-Case Models: "T" Output Range

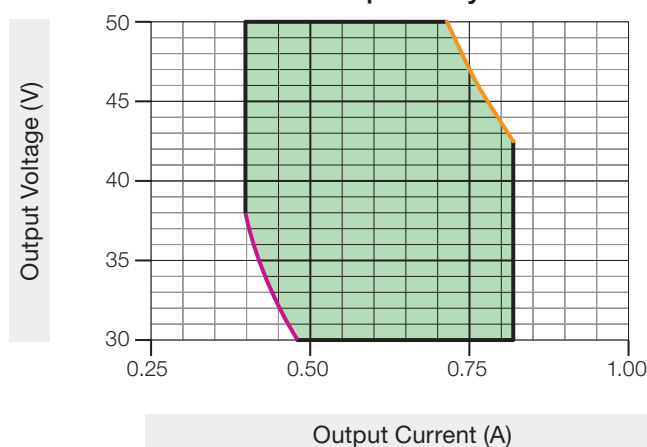
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                 | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 30–50 V $\sim$ | 0.40–0.83 A    | 15–35 W      |   | 75 °C                                    |

\* BLK model LDE13U1UMN-TABLK is NOM certified and available for Mexico.

## Typical Performance Specifications

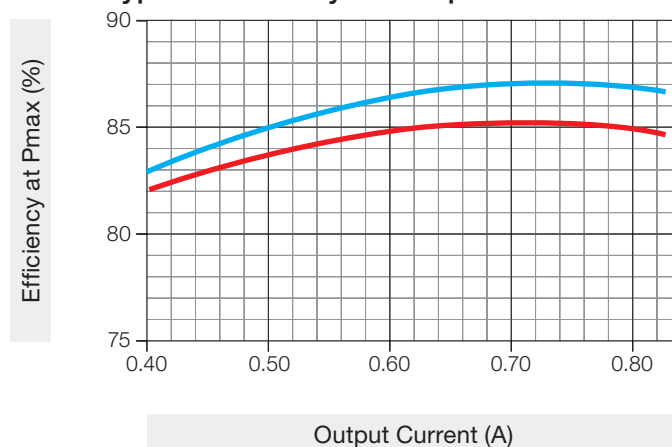
| Parameter         | Value  | Test Conditions                                                                                                                                             |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.15 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 0.70\text{ A}$ , $V_o = 50\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE13U1UMN-TA070 |
| Power Factor      | 0.96   |                                                                                                                                                             |
| THD               | 13%    |                                                                                                                                                             |
| Driver Efficiency | 87%    |                                                                                                                                                             |

Load Compatibility



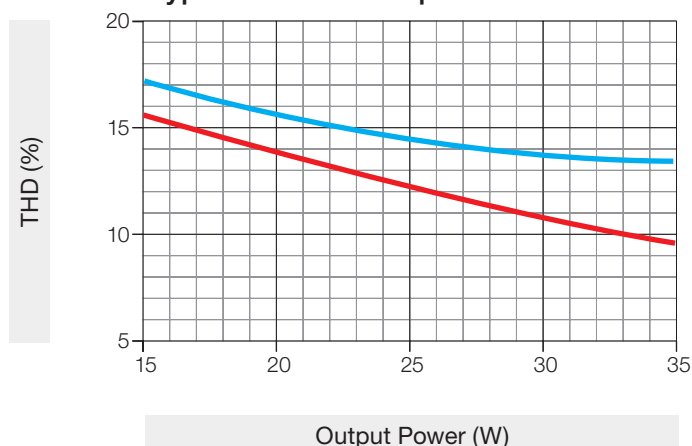
Key:   
 Shaded area meets DLC Version 2.1 (areas outside of shaded areas may not meet THD or PF requirements).  
 Constant 15 W output  Constant 35 W output

Typical Efficiency vs. Output Current



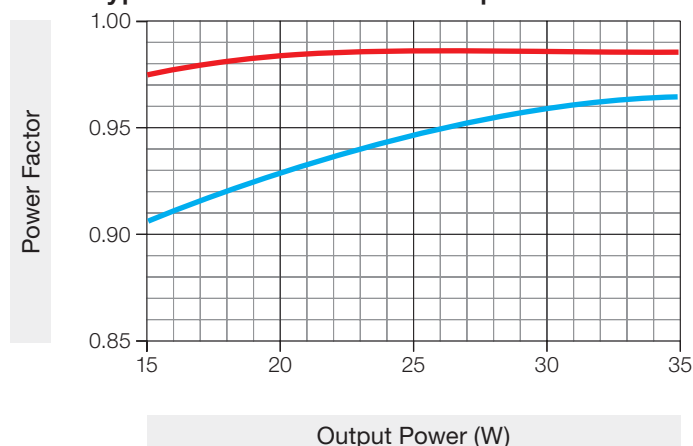
Key:  120 V~  277 V~

Typical THD vs. Output Power



Key:  120 V~  277 V~

Typical Power Factor vs. Output Power



Key:  120 V~  277 V~

Job Name:

Model Numbers:

Job Number:

## M-Case Models: "T" Output Range (continued)

| Model number*<br>LDE13U1UMN- | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                              |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -TA040                       | 0.40                     | 37.5                        | 50.0    | 0.98/0.91                                              | 15%/17%              | 79%/81%                     | 0.99/0.94                                              | 13%/15%              | 83%/83%                     |
| -TA041                       | 0.41                     | 36.6                        | 50.0    | 0.98/0.91                                              | 15%/17%              | 79%/80%                     | 0.99/0.94                                              | 13%/15%              | 83%/84%                     |
| -TA042                       | 0.42                     | 35.7                        | 50.0    | 0.98/0.91                                              | 15%/17%              | 79%/80%                     | 0.99/0.94                                              | 13%/14%              | 83%/84%                     |
| -TA043                       | 0.43                     | 34.9                        | 50.0    | 0.98/0.91                                              | 15%/16%              | 79%/80%                     | 0.99/0.94                                              | 12%/14%              | 83%/84%                     |
| -TA044                       | 0.44                     | 34.1                        | 50.0    | 0.98/0.91                                              | 15%/17%              | 79%/80%                     | 0.99/0.94                                              | 12%/14%              | 83%/84%                     |
| -TA045                       | 0.45                     | 33.3                        | 50.0    | 0.98/0.91                                              | 15%/17%              | 79%/80%                     | 0.99/0.94                                              | 12%/14%              | 84%/85%                     |
| -TA046                       | 0.46                     | 32.6                        | 50.0    | 0.98/0.91                                              | 15%/17%              | 79%/80%                     | 0.99/0.95                                              | 12%/14%              | 84%/85%                     |
| -TA047                       | 0.47                     | 31.9                        | 50.0    | 0.98/0.91                                              | 15%/16%              | 79%/80%                     | 0.99/0.95                                              | 12%/14%              | 84%/85%                     |
| -TA048                       | 0.48                     | 31.3                        | 50.0    | 0.98/0.91                                              | 15%/16%              | 79%/80%                     | 0.99/0.95                                              | 12%/14%              | 84%/85%                     |
| -TA049                       | 0.49                     | 30.6                        | 50.0    | 0.98/0.91                                              | 15%/16%              | 79%/80%                     | 0.99/0.95                                              | 11%/13%              | 84%/85%                     |
| -TA050                       | 0.50                     | 30.0                        | 50.0    | 0.98/0.91                                              | 15%/16%              | 79%/80%                     | 0.99/0.95                                              | 11%/13%              | 84%/86%                     |
| -TA051                       | 0.51                     | 30.0                        | 50.0    | 0.98/0.91                                              | 14%/16%              | 79%/80%                     | 0.99/0.95                                              | 11%/13%              | 84%/86%                     |
| -TA052                       | 0.52                     | 30.0                        | 50.0    | 0.98/0.91                                              | 14%/16%              | 79%/81%                     | 0.99/0.95                                              | 11%/13%              | 85%/86%                     |
| -TA053                       | 0.53                     | 30.0                        | 50.0    | 0.98/0.91                                              | 14%/16%              | 79%/81%                     | 0.99/0.96                                              | 11%/13%              | 85%/86%                     |
| -TA054                       | 0.54                     | 30.0                        | 50.0    | 0.98/0.92                                              | 14%/15%              | 79%/81%                     | 0.99/0.96                                              | 11%/13%              | 85%/86%                     |
| -TA055                       | 0.55                     | 30.0                        | 50.0    | 0.98/0.92                                              | 14%/16%              | 80%/81%                     | 0.99/0.96                                              | 10%/13%              | 85%/86%                     |
| -TA056                       | 0.56                     | 30.0                        | 50.0    | 0.98/0.92                                              | 14%/15%              | 80%/81%                     | 0.99/0.96                                              | 10%/13%              | 85%/86%                     |
| -TA057                       | 0.57                     | 30.0                        | 50.0    | 0.98/0.92                                              | 14%/15%              | 80%/81%                     | 0.99/0.96                                              | 10%/13%              | 85%/86%                     |
| -TA058                       | 0.58                     | 30.0                        | 50.0    | 0.98/0.92                                              | 13%/15%              | 80%/81%                     | 0.99/0.96                                              | 10%/13%              | 85%/87%                     |
| -TA059                       | 0.59                     | 30.0                        | 50.0    | 0.98/0.92                                              | 13%/15%              | 80%/81%                     | 0.99/0.96                                              | 10%/13%              | 85%/87%                     |
| -TA060                       | 0.60                     | 30.0                        | 50.0    | 0.98/0.93                                              | 13%/15%              | 80%/82%                     | 0.99/0.96                                              | 10%/13%              | 85%/87%                     |
| -TA061                       | 0.61                     | 30.0                        | 50.0    | 0.99/0.93                                              | 13%/15%              | 80%/82%                     | 0.99/0.96                                              | 10%/13%              | 85%/87%                     |
| -TA062                       | 0.62                     | 30.0                        | 50.0    | 0.99/0.93                                              | 13%/15%              | 81%/82%                     | 0.99/0.96                                              | 9%/13%               | 85%/87%                     |
| -TA063                       | 0.63                     | 30.0                        | 50.0    | 0.99/0.93                                              | 13%/14%              | 81%/82%                     | 0.99/0.96                                              | 9%/13%               | 85%/87%                     |
| -TA064                       | 0.64                     | 30.0                        | 50.0    | 0.99/0.93                                              | 13%/14%              | 81%/82%                     | 0.99/0.96                                              | 9%/13%               | 85%/87%                     |
| -TA065                       | 0.65                     | 30.0                        | 50.0    | 0.99/0.93                                              | 13%/14%              | 81%/82%                     | 0.99/0.97                                              | 9%/13%               | 86%/87%                     |
| -TA066                       | 0.66                     | 30.0                        | 50.0    | 0.99/0.93                                              | 12%/14%              | 81%/82%                     | 0.99/0.97                                              | 9%/13%               | 86%/87%                     |
| -TA067                       | 0.67                     | 30.0                        | 50.0    | 0.99/0.94                                              | 13%/14%              | 82%/82%                     | 0.99/0.97                                              | 9%/12%               | 86%/88%                     |
| -TA068                       | 0.68                     | 30.0                        | 50.0    | 0.99/0.94                                              | 13%/14%              | 82%/83%                     | 0.99/0.97                                              | 9%/13%               | 86%/88%                     |
| -TA069                       | 0.69                     | 30.0                        | 50.0    | 0.99/0.94                                              | 13%/14%              | 82%/83%                     | 0.99/0.97                                              | 9%/12%               | 86%/88%                     |
| -TA070                       | 0.70                     | 30.0                        | 50.0    | 0.99/0.94                                              | 13%/14%              | 82%/83%                     | 0.99/0.97                                              | 8%/12%               | 86%/88%                     |
| -TA071                       | 0.71                     | 30.0                        | 49.3    | 0.99/0.94                                              | 13%/14%              | 82%/83%                     | 0.99/0.97                                              | 8%/12%               | 86%/88%                     |
| -TA072                       | 0.72                     | 30.0                        | 48.6    | 0.99/0.94                                              | 12%/14%              | 82%/83%                     | 0.99/0.97                                              | 9%/12%               | 86%/88%                     |
| -TA073                       | 0.73                     | 30.0                        | 48.0    | 0.99/0.94                                              | 12%/14%              | 82%/83%                     | 0.99/0.97                                              | 9%/12%               | 86%/87%                     |
| -TA074                       | 0.74                     | 30.0                        | 47.3    | 0.99/0.94                                              | 12%/14%              | 82%/83%                     | 0.99/0.97                                              | 9%/12%               | 85%/87%                     |
| -TA075                       | 0.75                     | 30.0                        | 46.7    | 0.99/0.94                                              | 12%/14%              | 82%/83%                     | 0.99/0.97                                              | 9%/12%               | 85%/87%                     |
| -TA076                       | 0.76                     | 30.0                        | 46.1    | 0.99/0.94                                              | 12%/14%              | 82%/83%                     | 0.99/0.97                                              | 8%/12%               | 85%/87%                     |
| -TA077                       | 0.77                     | 30.0                        | 45.5    | 0.99/0.95                                              | 12%/14%              | 82%/83%                     | 0.99/0.97                                              | 8%/12%               | 85%/87%                     |

Job Name:

Model Numbers:

Job Number:

M-Case Models: “T” Output Range *(continued)*

| Model number*<br>LDE13U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -TA078                       | 0.78                           | 30.0                           | 44.9    | 0.99/0.95                                                 | 12%/14%                     | 82%/84%                               | 0.99/0.97                                                 | 9%/12%                      | 85%/87%                               |
| -TA079                       | 0.79                           | 30.0                           | 44.3    | 0.99/0.95                                                 | 12%/14%                     | 82%/84%                               | 0.99/0.97                                                 | 9%/12%                      | 85%/87%                               |
| -TA080                       | 0.80                           | 30.0                           | 43.8    | 0.99/0.95                                                 | 11%/14%                     | 82%/84%                               | 0.99/0.97                                                 | 9%/12%                      | 85%/87%                               |
| -TA081                       | 0.81                           | 30.0                           | 43.2    | 0.99/0.95                                                 | 11%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 9%/12%                      | 85%/87%                               |
| -TA082                       | 0.82                           | 30.0                           | 42.7    | 0.99/0.95                                                 | 11%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/12%                      | 85%/87%                               |
| -TA083                       | 0.83                           | 30.0                           | 42.2    | 0.99/0.95                                                 | 11%/14%                     | 83%/84%                               | 0.99/0.97                                                 | 8%/12%                      | 85%/87%                               |

\* See **How to Build a Model Number, M-Case Type** page for a sample model number.

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## M-Case Models: “U” Output Range

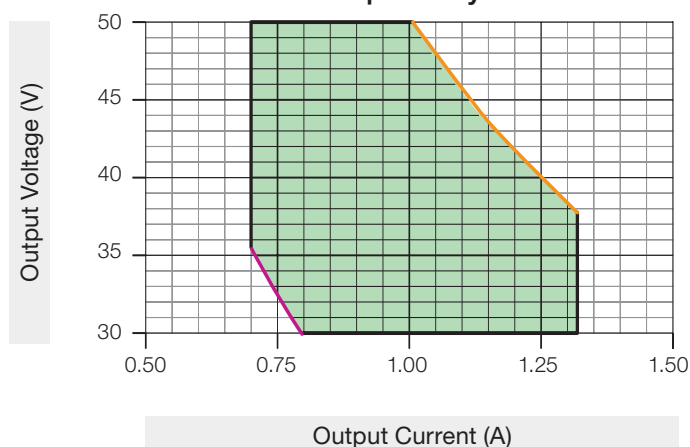
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                              | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 30–50 V $\sim$ | 0.70–1.33 A    | 25–50 W      |  | 75 °C                                    |

\* BLK model LDE15U1UMN-UABLK is NOM certified and available for Mexico.

## Typical Performance Specifications

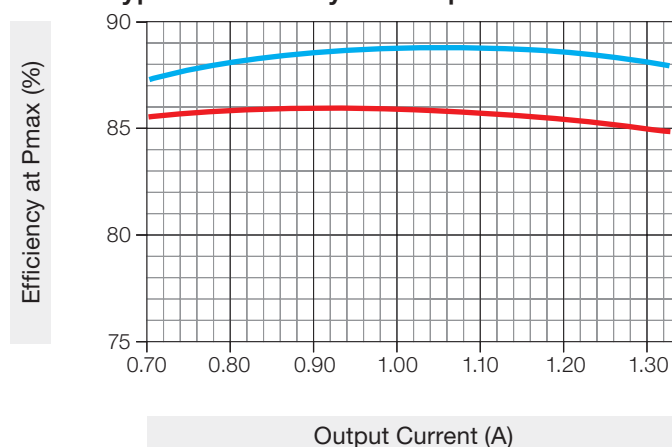
| Parameter         | Value  | Test Conditions                                                                                                                                            |
|-------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.21 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 1.0\text{ A}$ , $V_o = 50\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE15U1UMN-UA100 |
| Power Factor      | 0.97   |                                                                                                                                                            |
| THD               | 11%    |                                                                                                                                                            |
| Driver Efficiency | 86%    |                                                                                                                                                            |

## Load Compatibility



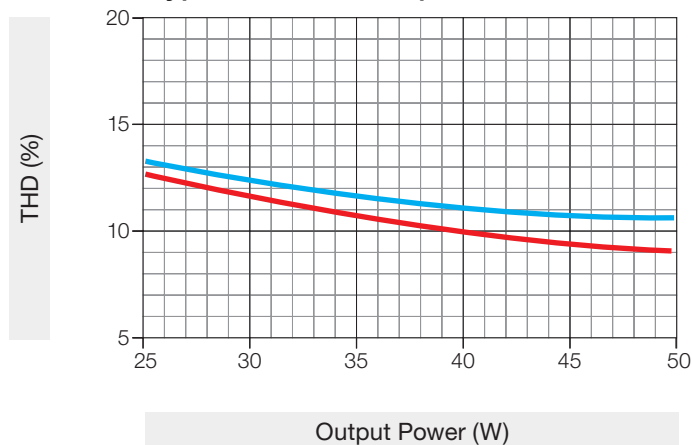
Key: ■ Shaded area meets DLC Version 2.1 (areas outside of shaded areas may not meet THD or PF requirements).  
— Constant 25 W output — Constant 50 W output

## Typical Efficiency vs. Output Current



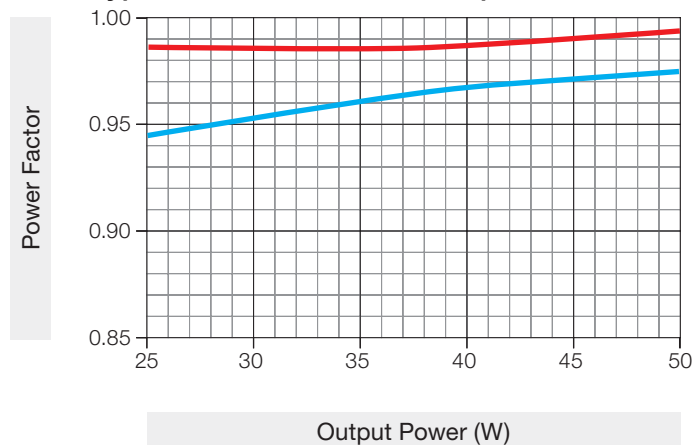
Key: — 120 V $\sim$  — 277 V $\sim$

## Typical THD vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

## Typical Power Factor vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

Job Name:

Model Numbers:

Job Number:

## M-Case Models: “U” Output Range (continued)

| Model number*<br>LDE15U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -UA070                       | 0.70                           | 35.7                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/85%                               | 0.99/0.97                                                 | 10%/10%                     | 86%/88%                               |
| -UA071                       | 0.71                           | 35.2                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/85%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/88%                               |
| -UA072                       | 0.72                           | 34.7                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/85%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/88%                               |
| -UA073                       | 0.73                           | 34.3                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/85%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/88%                               |
| -UA074                       | 0.74                           | 33.8                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/85%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/88%                               |
| -UA075                       | 0.75                           | 33.3                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/84%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/88%                               |
| -UA076                       | 0.76                           | 32.9                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/85%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/88%                               |
| -UA077                       | 0.77                           | 32.5                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/85%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/89%                               |
| -UA078                       | 0.78                           | 32.1                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/84%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/89%                               |
| -UA079                       | 0.79                           | 31.7                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/84%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/89%                               |
| -UA080                       | 0.80                           | 31.3                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/84%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/89%                               |
| -UA081                       | 0.81                           | 30.9                           | 50.0    | 0.99/0.95                                                 | 12%/12%                     | 83%/84%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/89%                               |
| -UA082                       | 0.82                           | 30.5                           | 50.0    | 0.99/0.95                                                 | 12%/11%                     | 83%/85%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/89%                               |
| -UA083                       | 0.83                           | 30.0                           | 50.0    | 0.99/0.95                                                 | 11%/12%                     | 82%/85%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/89%                               |
| -UA084                       | 0.84                           | 30.0                           | 50.0    | 0.99/0.95                                                 | 11%/12%                     | 83%/85%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/89%                               |
| -UA085                       | 0.85                           | 30.0                           | 50.0    | 0.99/0.95                                                 | 11%/12%                     | 83%/85%                               | 0.99/0.97                                                 | 9%/10%                      | 86%/89%                               |
| -UA086                       | 0.86                           | 30.0                           | 50.0    | 0.99/0.95                                                 | 11%/12%                     | 83%/85%                               | 0.99/0.98                                                 | 9%/10%                      | 86%/89%                               |
| -UA087                       | 0.87                           | 30.0                           | 50.0    | 0.99/0.95                                                 | 11%/12%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA088                       | 0.88                           | 30.0                           | 50.0    | 0.99/0.95                                                 | 11%/12%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA089                       | 0.89                           | 30.0                           | 50.0    | 0.99/0.95                                                 | 11%/12%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA090                       | 0.90                           | 30.0                           | 50.0    | 0.99/0.95                                                 | 11%/12%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA091                       | 0.91                           | 30.0                           | 50.0    | 0.99/0.95                                                 | 11%/12%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA092                       | 0.92                           | 30.0                           | 50.0    | 0.99/0.96                                                 | 11%/12%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA093                       | 0.93                           | 30.0                           | 50.0    | 0.99/0.96                                                 | 11%/12%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA094                       | 0.94                           | 30.0                           | 50.0    | 0.99/0.96                                                 | 11%/11%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA095                       | 0.95                           | 30.0                           | 50.0    | 0.99/0.96                                                 | 11%/11%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA096                       | 0.96                           | 30.0                           | 50.0    | 0.99/0.96                                                 | 11%/11%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA097                       | 0.97                           | 30.0                           | 50.0    | 0.99/0.96                                                 | 11%/11%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/9%                       | 86%/89%                               |
| -UA098                       | 0.98                           | 30.0                           | 50.0    | 0.99/0.96                                                 | 11%/11%                     | 83%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA099                       | 0.99                           | 30.0                           | 50.0    | 0.99/0.96                                                 | 10%/11%                     | 84%/85%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA100                       | 1.00                           | 30.0                           | 50.0    | 0.99/0.96                                                 | 10%/11%                     | 84%/85%                               | 0.99/0.98                                                 | 8%/9%                       | 86%/89%                               |
| -UA101                       | 1.01                           | 30.0                           | 49.5    | 0.99/0.96                                                 | 10%/11%                     | 84%/86%                               | 0.99/0.98                                                 | 8%/9%                       | 86%/89%                               |
| -UA102                       | 1.02                           | 30.0                           | 49.0    | 0.99/0.96                                                 | 10%/11%                     | 84%/86%                               | 0.99/0.98                                                 | 8%/9%                       | 86%/89%                               |
| -UA103                       | 1.03                           | 30.0                           | 48.5    | 0.99/0.96                                                 | 10%/11%                     | 84%/86%                               | 0.99/0.98                                                 | 8%/9%                       | 86%/89%                               |
| -UA104                       | 1.04                           | 30.0                           | 48.1    | 0.99/0.96                                                 | 10%/11%                     | 84%/86%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA105                       | 1.05                           | 30.0                           | 47.6    | 0.99/0.96                                                 | 10%/11%                     | 84%/86%                               | 0.99/0.98                                                 | 8%/9%                       | 86%/89%                               |
| -UA106                       | 1.06                           | 30.0                           | 47.2    | 0.99/0.96                                                 | 10%/11%                     | 84%/86%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |
| -UA107                       | 1.07                           | 30.0                           | 46.7    | 0.99/0.96                                                 | 10%/11%                     | 84%/86%                               | 0.99/0.98                                                 | 8%/10%                      | 86%/89%                               |

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## M-Case Models: “U” Output Range (continued)

| Model number*<br>LDE15U1UMN- | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                              |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -UA108                       | 1.08                     | 30.0                        | 46.3    | 0.99/0.96                                              | 10%/11%              | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA109                       | 1.09                     | 30.0                        | 45.9    | 0.99/0.96                                              | 10%/11%              | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA110                       | 1.10                     | 30.0                        | 45.5    | 0.99/0.96                                              | 10%/11%              | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA111                       | 1.11                     | 30.0                        | 45.1    | 0.99/0.96                                              | 10%/11%              | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA112                       | 1.12                     | 30.0                        | 44.6    | 0.99/0.97                                              | 10%/11%              | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA113                       | 1.13                     | 30.0                        | 44.3    | 0.99/0.97                                              | 10%/11%              | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA114                       | 1.14                     | 30.0                        | 43.9    | 0.99/0.97                                              | 10%/11%              | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA115                       | 1.15                     | 30.0                        | 43.5    | 0.99/0.97                                              | 10%/10%              | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA116                       | 1.16                     | 30.0                        | 43.1    | 0.99/0.97                                              | 9%/10%               | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA117                       | 1.17                     | 30.0                        | 42.7    | 0.99/0.97                                              | 9%/10%               | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA118                       | 1.18                     | 30.0                        | 42.4    | 0.99/0.97                                              | 9%/10%               | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA119                       | 1.19                     | 30.0                        | 42.0    | 0.99/0.97                                              | 9%/10%               | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA120                       | 1.20                     | 30.0                        | 41.7    | 0.99/0.97                                              | 9%/10%               | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA121                       | 1.21                     | 30.0                        | 41.3    | 0.99/0.97                                              | 9%/10%               | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA122                       | 1.22                     | 30.0                        | 41.0    | 0.99/0.97                                              | 9%/10%               | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA123                       | 1.23                     | 30.0                        | 40.7    | 0.99/0.97                                              | 9%/10%               | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA124                       | 1.24                     | 30.0                        | 40.3    | 0.99/0.97                                              | 9%/10%               | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA125                       | 1.25                     | 30.0                        | 40.0    | 0.99/0.97                                              | 9%/10%               | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 86%/89%                     |
| -UA126                       | 1.26                     | 30.0                        | 39.7    | 0.99/0.97                                              | 9%/10%               | 84%/86%                     | 0.99/0.98                                              | 8%/10%               | 85%/89%                     |
| -UA127                       | 1.27                     | 30.0                        | 39.4    | 0.99/0.97                                              | 9%/10%               | 84%/87%                     | 0.99/0.98                                              | 8%/10%               | 85%/89%                     |
| -UA128                       | 1.28                     | 30.0                        | 39.1    | 0.99/0.97                                              | 9%/10%               | 84%/87%                     | 0.99/0.98                                              | 8%/10%               | 85%/88%                     |
| -UA129                       | 1.29                     | 30.0                        | 38.8    | 0.99/0.97                                              | 9%/10%               | 84%/87%                     | 0.99/0.98                                              | 8%/10%               | 85%/88%                     |
| -UA130                       | 1.30                     | 30.0                        | 38.5    | 0.99/0.97                                              | 9%/10%               | 84%/87%                     | 0.99/0.98                                              | 8%/10%               | 85%/88%                     |
| -UA131                       | 1.31                     | 30.0                        | 38.2    | 0.99/0.97                                              | 9%/10%               | 84%/87%                     | 0.99/0.98                                              | 8%/10%               | 85%/88%                     |
| -UA132                       | 1.32                     | 30.0                        | 37.9    | 0.99/0.97                                              | 9%/10%               | 84%/87%                     | 0.99/0.98                                              | 8%/10%               | 85%/88%                     |
| -UA133                       | 1.33                     | 30.0                        | 37.6    | 0.99/0.97                                              | 9%/10%               | 84%/87%                     | 0.99/0.98                                              | 8%/10%               | 85%/88%                     |

\* See [How to Build a Model Number, M-Case Type](#) page for a sample model number.

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## M-Case Models: “V” Output Range

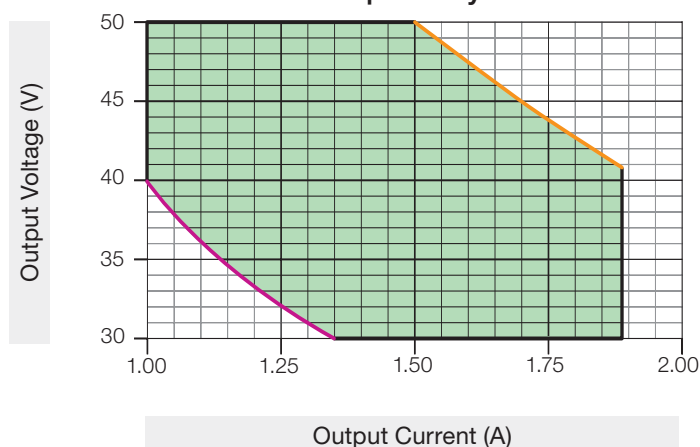
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                 | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 30–50 V $\sim$ | 1.00–1.88 A    | 40–75 W      |   | 75 °C                                    |

\* BLK model LDE17U1UMN-VABLK is NOM certified and available for Mexico.

## Typical Performance Specifications

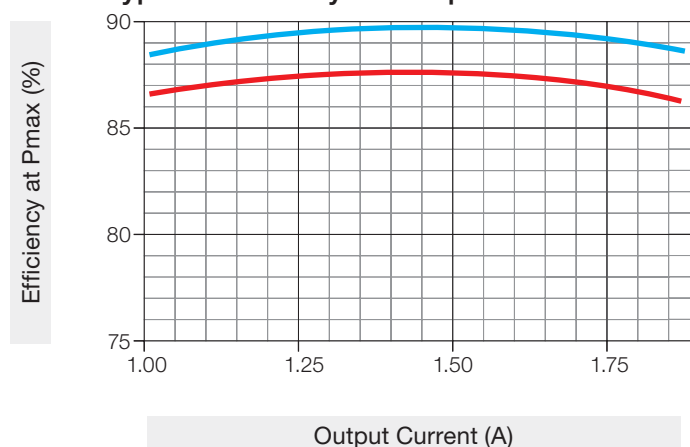
| Parameter         | Value  | Test Conditions                                                                                                                                            |
|-------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.31 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 1.5\text{ A}$ , $V_o = 50\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE17U1UMN-VA150 |
| Power Factor      | 0.96   |                                                                                                                                                            |
| THD               | 13%    |                                                                                                                                                            |
| Driver Efficiency | 90%    |                                                                                                                                                            |

Load Compatibility



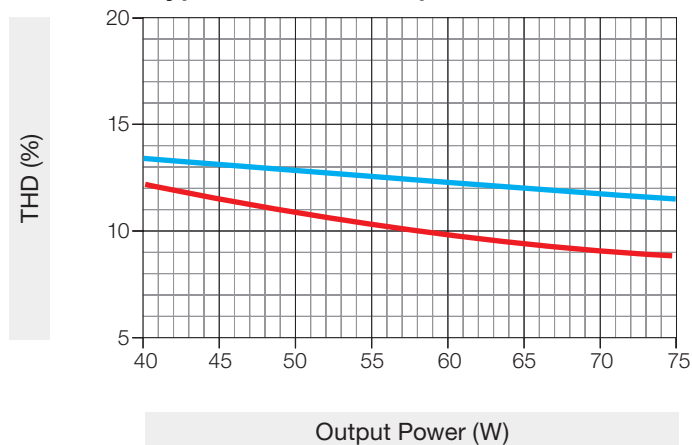
Key:  Shaded area meets DLC Version 2.1 (areas outside of shaded areas may not meet THD or PF requirements).  
 Constant 40 W output  Constant 75 W output

Typical Efficiency vs. Output Current



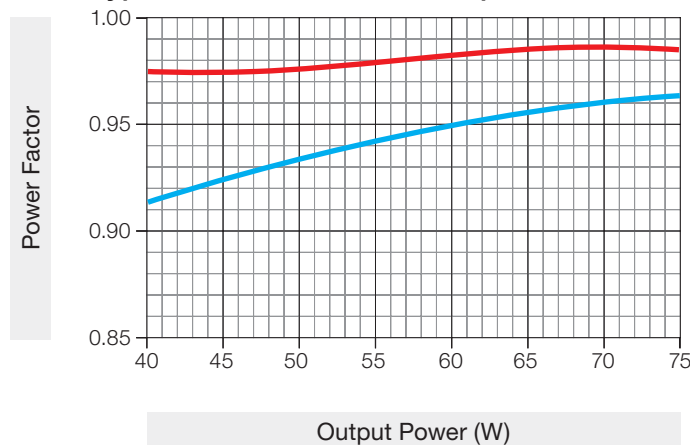
Key:  120 V $\sim$   277 V $\sim$

Typical THD vs. Output Power



Key:  120 V $\sim$   277 V $\sim$

Typical Power Factor vs. Output Power



Key:  120 V $\sim$   277 V $\sim$

Job Name:

Model Numbers:

Job Number:



## M-Case Models: “V” Output Range (continued)

| Model number*<br>LDE17U1UMN- | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                              |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -VA100                       | 1.00                     | 40.0                        | 50.0    | 0.98/0.91                                              | 11%/13%              | 86%/86%                     | 0.98/0.94                                              | 10%/11%              | 87%/89%                     |
| -VA101                       | 1.01                     | 39.6                        | 50.0    | 0.98/0.92                                              | 11%/12%              | 86%/87%                     | 0.98/0.94                                              | 10%/11%              | 87%/89%                     |
| -VA102                       | 1.02                     | 39.2                        | 50.0    | 0.98/0.92                                              | 11%/12%              | 86%/87%                     | 0.98/0.94                                              | 10%/11%              | 87%/89%                     |
| -VA103                       | 1.03                     | 38.8                        | 50.0    | 0.98/0.92                                              | 11%/12%              | 86%/87%                     | 0.99/0.94                                              | 9%/12%               | 87%/89%                     |
| -VA104                       | 1.04                     | 38.5                        | 50.0    | 0.98/0.92                                              | 11%/12%              | 86%/87%                     | 0.99/0.94                                              | 9%/12%               | 87%/89%                     |
| -VA105                       | 1.05                     | 38.1                        | 50.0    | 0.98/0.92                                              | 11%/12%              | 86%/87%                     | 0.98/0.94                                              | 9%/12%               | 87%/89%                     |
| -VA106                       | 1.06                     | 37.7                        | 50.0    | 0.98/0.92                                              | 12%/12%              | 86%/87%                     | 0.98/0.94                                              | 9%/12%               | 87%/89%                     |
| -VA107                       | 1.07                     | 37.4                        | 50.0    | 0.98/0.92                                              | 12%/12%              | 86%/87%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -VA108                       | 1.08                     | 37.0                        | 50.0    | 0.98/0.92                                              | 12%/13%              | 85%/87%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -VA109                       | 1.09                     | 36.7                        | 50.0    | 0.98/0.92                                              | 12%/13%              | 85%/87%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -VA110                       | 1.10                     | 36.4                        | 50.0    | 0.98/0.91                                              | 12%/13%              | 85%/87%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -VA111                       | 1.11                     | 36.0                        | 50.0    | 0.98/0.92                                              | 12%/12%              | 85%/87%                     | 0.99/0.95                                              | 9%/13%               | 87%/89%                     |
| -VA112                       | 1.12                     | 35.7                        | 50.0    | 0.98/0.92                                              | 11%/12%              | 85%/87%                     | 0.99/0.95                                              | 9%/12%               | 87%/89%                     |
| -VA113                       | 1.13                     | 35.4                        | 50.0    | 0.98/0.91                                              | 11%/13%              | 85%/87%                     | 0.99/0.95                                              | 9%/12%               | 88%/89%                     |
| -VA114                       | 1.14                     | 35.1                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/87%                     | 0.99/0.95                                              | 9%/12%               | 87%/90%                     |
| -VA115                       | 1.15                     | 34.8                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/87%                     | 0.99/0.95                                              | 9%/12%               | 87%/90%                     |
| -VA116                       | 1.16                     | 34.5                        | 50.0    | 0.98/0.91                                              | 11%/13%              | 85%/87%                     | 0.99/0.95                                              | 9%/12%               | 88%/90%                     |
| -VA117                       | 1.17                     | 34.2                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/87%                     | 0.99/0.95                                              | 9%/12%               | 88%/90%                     |
| -VA118                       | 1.18                     | 33.9                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/87%                     | 0.99/0.95                                              | 9%/12%               | 88%/90%                     |
| -VA119                       | 1.19                     | 33.6                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/87%                     | 0.99/0.95                                              | 9%/12%               | 88%/90%                     |
| -VA120                       | 1.20                     | 33.3                        | 50.0    | 0.98/0.91                                              | 11%/13%              | 85%/86%                     | 0.99/0.95                                              | 9%/12%               | 88%/90%                     |
| -VA121                       | 1.21                     | 33.1                        | 50.0    | 0.98/0.91                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/12%               | 88%/90%                     |
| -VA122                       | 1.22                     | 32.8                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/12%               | 88%/90%                     |
| -VA123                       | 1.23                     | 32.5                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/12%               | 88%/90%                     |
| -VA124                       | 1.24                     | 32.3                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/12%               | 88%/90%                     |
| -VA125                       | 1.25                     | 32.0                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/12%               | 88%/90%                     |
| -VA126                       | 1.26                     | 31.8                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/12%               | 88%/90%                     |
| -VA127                       | 1.27                     | 31.5                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/12%               | 88%/90%                     |
| -VA128                       | 1.28                     | 31.3                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/11%               | 88%/90%                     |
| -VA129                       | 1.29                     | 31.0                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/12%               | 88%/90%                     |
| -VA130                       | 1.30                     | 30.8                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/11%               | 88%/90%                     |
| -VA131                       | 1.31                     | 30.5                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/11%               | 88%/90%                     |
| -VA132                       | 1.32                     | 30.3                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/11%               | 88%/90%                     |
| -VA133                       | 1.33                     | 30.0                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/11%               | 88%/90%                     |
| -VA134                       | 1.34                     | 30.0                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/11%               | 88%/90%                     |
| -VA135                       | 1.35                     | 30.0                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/11%               | 88%/90%                     |
| -VA136                       | 1.36                     | 30.0                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 9%/11%               | 88%/90%                     |
| -VA137                       | 1.37                     | 30.0                        | 50.0    | 0.98/0.92                                              | 11%/13%              | 85%/86%                     | 0.99/0.96                                              | 8%/11%               | 88%/90%                     |

Job Name:

Model Numbers:

Job Number:

## M-Case Models: “V” Output Range (continued)

| Model number*<br>LDE17U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -VA138                       | 1.38                           | 30.0                           | 50.0    | 0.98/0.92                                                 | 11%/13%                     | 85%/86%                               | 0.99/0.96                                                 | 8%/11%                      | 88%/90%                               |
| -VA139                       | 1.39                           | 30.0                           | 50.0    | 0.98/0.92                                                 | 11%/13%                     | 85%/86%                               | 0.99/0.96                                                 | 8%/11%                      | 88%/90%                               |
| -VA140                       | 1.40                           | 30.0                           | 50.0    | 0.98/0.92                                                 | 11%/12%                     | 85%/86%                               | 0.99/0.96                                                 | 8%/11%                      | 88%/90%                               |
| -VA141                       | 1.41                           | 30.0                           | 50.0    | 0.98/0.92                                                 | 11%/12%                     | 85%/86%                               | 0.99/0.96                                                 | 8%/11%                      | 88%/90%                               |
| -VA142                       | 1.42                           | 30.0                           | 50.0    | 0.98/0.92                                                 | 11%/12%                     | 85%/86%                               | 0.99/0.96                                                 | 8%/10%                      | 88%/90%                               |
| -VA143                       | 1.43                           | 30.0                           | 50.0    | 0.98/0.92                                                 | 11%/12%                     | 85%/86%                               | 0.99/0.96                                                 | 8%/10%                      | 88%/90%                               |
| -VA144                       | 1.44                           | 30.0                           | 50.0    | 0.98/0.93                                                 | 11%/12%                     | 85%/86%                               | 0.99/0.96                                                 | 8%/10%                      | 88%/90%                               |
| -VA145                       | 1.45                           | 30.0                           | 50.0    | 0.98/0.93                                                 | 11%/12%                     | 85%/86%                               | 0.99/0.96                                                 | 8%/10%                      | 88%/90%                               |
| -VA146                       | 1.46                           | 30.0                           | 50.0    | 0.98/0.93                                                 | 11%/12%                     | 85%/86%                               | 0.99/0.96                                                 | 8%/10%                      | 88%/90%                               |
| -VA147                       | 1.47                           | 30.0                           | 50.0    | 0.98/0.93                                                 | 11%/12%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA148                       | 1.48                           | 30.0                           | 50.0    | 0.98/0.93                                                 | 11%/12%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA149                       | 1.49                           | 30.0                           | 50.0    | 0.98/0.93                                                 | 10%/12%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA150                       | 1.50                           | 30.0                           | 50.0    | 0.98/0.93                                                 | 10%/12%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA151                       | 1.51                           | 30.0                           | 49.7    | 0.98/0.93                                                 | 10%/12%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA152                       | 1.52                           | 30.0                           | 49.3    | 0.98/0.93                                                 | 10%/12%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA153                       | 1.53                           | 30.0                           | 49.0    | 0.98/0.93                                                 | 10%/12%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA154                       | 1.54                           | 30.0                           | 48.7    | 0.98/0.93                                                 | 10%/12%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA155                       | 1.55                           | 30.0                           | 48.4    | 0.98/0.93                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA156                       | 1.56                           | 30.0                           | 48.1    | 0.98/0.93                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA157                       | 1.57                           | 30.0                           | 47.8    | 0.98/0.93                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA158                       | 1.58                           | 30.0                           | 47.5    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA159                       | 1.59                           | 30.0                           | 47.2    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA160                       | 1.60                           | 30.0                           | 46.9    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA161                       | 1.61                           | 30.0                           | 46.6    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA162                       | 1.62                           | 30.0                           | 46.3    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA163                       | 1.63                           | 30.0                           | 46.0    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA164                       | 1.64                           | 30.0                           | 45.7    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA165                       | 1.65                           | 30.0                           | 45.5    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA166                       | 1.66                           | 30.0                           | 45.2    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA167                       | 1.67                           | 30.0                           | 44.9    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA168                       | 1.68                           | 30.0                           | 44.6    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA169                       | 1.69                           | 30.0                           | 44.4    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA170                       | 1.70                           | 30.0                           | 44.1    | 0.98/0.94                                                 | 10%/11%                     | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 88%/90%                               |
| -VA171                       | 1.71                           | 30.0                           | 43.9    | 0.98/0.94                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/90%                               |
| -VA172                       | 1.72                           | 30.0                           | 43.6    | 0.98/0.94                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/90%                               |
| -VA173                       | 1.73                           | 30.0                           | 43.4    | 0.98/0.94                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/90%                               |
| -VA174                       | 1.74                           | 30.0                           | 43.1    | 0.98/0.94                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/90%                               |
| -VA175                       | 1.75                           | 30.0                           | 42.9    | 0.98/0.94                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/90%                               |

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

M-Case Models: “V” Output Range (*continued*)

| Model number*<br>LDE17U1UMN- | Rated<br>Output<br>Current (A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                       | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                       |
|------------------------------|--------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|---------------------------------------|-----------------------------------------------------------|-----------------------------|---------------------------------------|
|                              |                                | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at<br>120 V~/<br>277 V~ |
| -VA176                       | 1.76                           | 30.0                           | 42.6    | 0.98/0.94                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA177                       | 1.77                           | 30.0                           | 42.4    | 0.98/0.94                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA178                       | 1.78                           | 30.0                           | 42.1    | 0.98/0.94                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA179                       | 1.79                           | 30.0                           | 41.9    | 0.98/0.95                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA180                       | 1.80                           | 30.0                           | 41.7    | 0.98/0.95                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA181                       | 1.81                           | 30.0                           | 41.4    | 0.98/0.95                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA182                       | 1.82                           | 30.0                           | 41.2    | 0.98/0.95                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA183                       | 1.83                           | 30.0                           | 41.0    | 0.98/0.95                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA184                       | 1.84                           | 30.0                           | 40.8    | 0.98/0.95                                                 | 9%/11%                      | 85%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA185                       | 1.85                           | 30.0                           | 40.5    | 0.98/0.95                                                 | 9%/11%                      | 84%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA186                       | 1.86                           | 30.0                           | 40.3    | 0.98/0.95                                                 | 9%/11%                      | 84%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA187                       | 1.87                           | 30.0                           | 40.1    | 0.98/0.95                                                 | 9%/11%                      | 84%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |
| -VA188                       | 1.88                           | 30.0                           | 39.9    | 0.98/0.95                                                 | 9%/11%                      | 84%/87%                               | 0.99/0.97                                                 | 8%/10%                      | 87%/89%                               |

\* See [How to Build a Model Number, M-Case Type](#) page for a sample model number.

Job Name:

Model Numbers:

Job Number:

## How to Build a Model Number, K-Case Type: Hi-lume 1% EcoSystem (up to 40 W) LED Driver with Soft-on, Fade-to-Black



K-case type

# LDE14U1UK - A

### Case Style

- **S:** Studded (K-case only)
- **N:** Non-Studded

### LED Load Output Range: Class 2 Constant Current (see the following pages for more detail)

- **A:** 0.22–0.45 A, 21.0–50.0 V<sup>\*\*\*</sup>, 7–17.5 W
- **B:** 0.33–0.70 A, 30.0–50.0 V<sup>\*\*\*</sup>, 14–35 W
- **C:** 0.46–0.93 A, 16.0–37.1 V<sup>\*\*\*</sup>, 13–26 W
- **D:** 0.38–0.75 A, 12.0–30.2 V<sup>\*\*\*</sup>, 8–16 W
- **E:** 0.71–1.05 A, 31.0–50.0 V<sup>\*\*\*</sup>, 22–40 W
- **F:** 0.71–1.40 A, 19.0–38.0 V<sup>\*\*\*</sup>, 21–40 W
- **G:** 0.94–1.40 A, 13.0–30.0 V<sup>\*\*\*</sup>, 18.5–32 W
- **H:** 0.63–1.05 A, 10.0–21.0 V<sup>\*\*\*</sup>, 8–18 W

### Current Level (for Constant-Current)

- **022** = 0.22 A

**Option 1:** Order a driver configured by Lutron to a desired output current.

**Example:** LDE14U1UKN-BA070 has been pre-configured at Lutron to an output of 0.70 A. Refer to the example above.

**Note:** LDE1 drivers produced by Lutron after January 1, 2019 can be reconfigured through QwikFig with a K- or M- can nest.

- **140** = 1.40 A

**Option 2:** Order a bulk driver and configure it through QwikFig with a K- or M- can nest.

**Example:** LDE14U1UKN-BABLK (0.33–0.70 A)\*

**Note:** Default set to minimum output current for the respective **LED Load Output Range**.

Example: LDE14U1UKN-BA070

- 0.70 A
- 21–35 W\*\*
- Non-studded case LED driver

For further assistance in selecting your model number, contact our LED Center of Excellence at **LEDs@lutron.com**

\*\* Minimum and maximum wattages derived from minimum and maximum compatible load voltages at 0.7 A:  
0.7 A × 30 V = 21 W; 0.7 A × 50 V = 35 W

**Attention:** Model numbers may appear similar to Lutron Hi-lume 1% EcoSystem, Hi-lume 1% 3-wire or Hi-lume 1% 2-wire drivers, but they are not direct model-for-model replacements. Please note the driver's output rating and the load ratings to select the correct product for your fixture.

\* Output voltage range changes with output current and according to power limits. Check driver specifications on the following pages carefully to understand output voltage range of a particular SKU. Purchaser is responsible for electrical compatibility between LED driver and LED load.

## LUTRON SPECIFICATION SUBMITTAL

Page

Job Name:

Model Numbers:

Job Number:

## K-Case Models: "A" Output Range

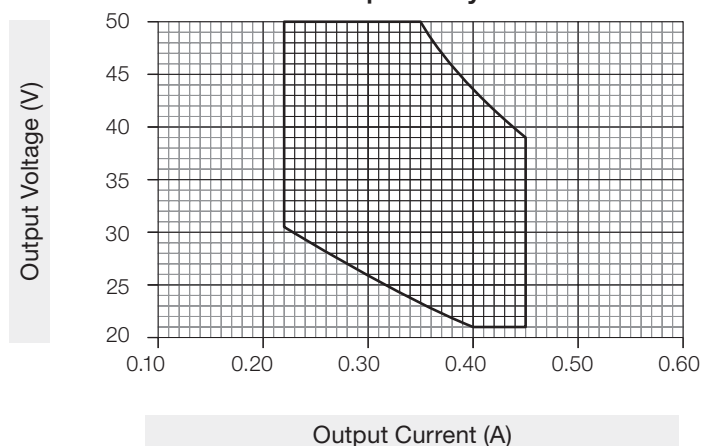
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                 | Maximum Rated Temp. @ t <sub>c</sub> for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Constant Current Driver (Class 2) | 21–50 V $\sim$ | 0.22–0.45 A    | 7–17.5 W     |   | 75 °C                                             |

\* BLK model LDE14U1UKx-AABLK is NOM certified and available for Mexico. "x" in the model number is either "S" (Studded) or "N" (Non-Studded).

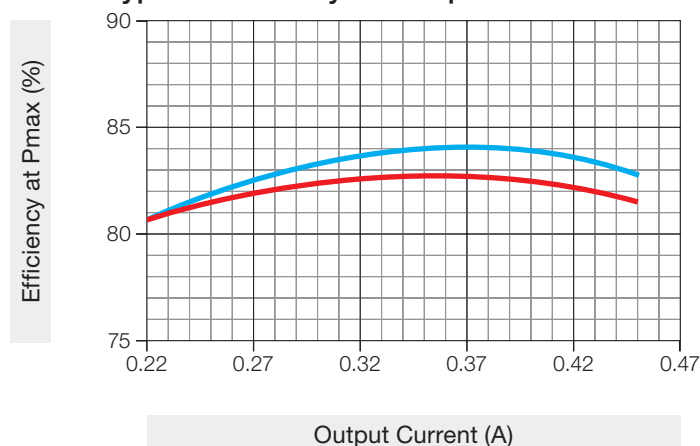
## Typical Performance Specifications

| Parameter         | Value  | Test Conditions                                                                                                                                               |
|-------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.09 A | V <sub>i</sub> = 277 V $\sim$ , t <sub>a</sub> = 25 °C, I <sub>o</sub> = 0.45 A, V <sub>o</sub> = 38.9 V $\sim$ ,<br>Maximum Light Output<br>LDE14U1UKN-AA045 |
| Power Factor      | 0.88   |                                                                                                                                                               |
| THD               | 17%    |                                                                                                                                                               |
| Driver Efficiency | 83%    |                                                                                                                                                               |

Load Compatibility

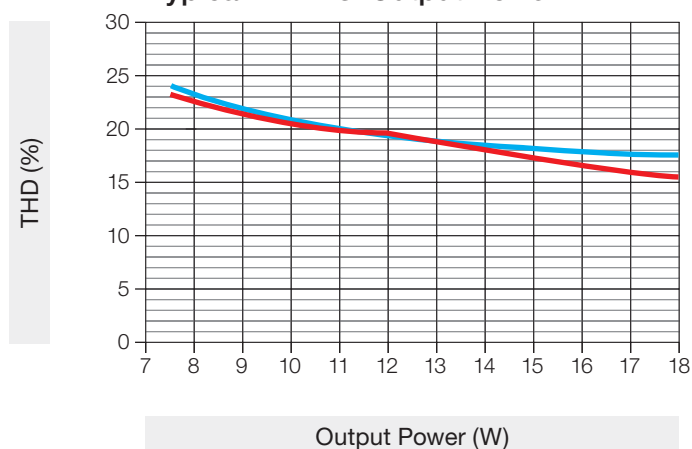


Typical Efficiency vs. Output Current



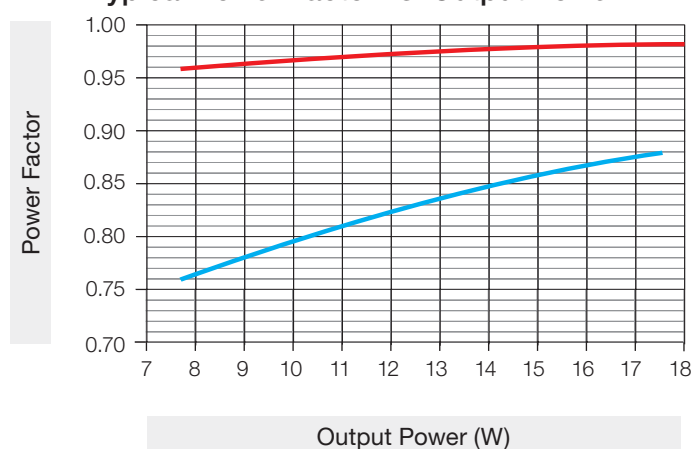
Key: — 120 V $\sim$  — 277 V $\sim$

Typical THD vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

Typical Power Factor vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

continued on next page...

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

K-Case Models: “A” Output Range *(continued)*

## Output Current and Compatible Load Voltage

| Model Number*<br>LDE14U1UKS/N | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|-------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                               |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -AA022                        | 0.22                     | 30.5                        | 50.0    | 0.94/0.73                                              | 25%/26%              | 76%/75%                     | 0.97/0.81                                              | 20%/20%              | 80%/80%                     |
| -AA023                        | 0.23                     | 29.9                        | 50.0    | 0.94/0.74                                              | 25%/26%              | 77%/76%                     | 0.97/0.81                                              | 20%/19%              | 81%/81%                     |
| -AA024                        | 0.24                     | 29.3                        | 50.0    | 0.95/0.74                                              | 24%/25%              | 77%/76%                     | 0.97/0.83                                              | 19%/19%              | 81%/81%                     |
| -AA025                        | 0.25                     | 28.7                        | 50.0    | 0.95/0.74                                              | 24%/25%              | 77%/76%                     | 0.97/0.83                                              | 19%/19%              | 81%/82%                     |
| -AA026                        | 0.26                     | 28.1                        | 50.0    | 0.95/0.75                                              | 24%/25%              | 77%/76%                     | 0.97/0.84                                              | 19%/19%              | 81%/82%                     |
| -AA027                        | 0.27                     | 27.6                        | 50.0    | 0.95/0.75                                              | 23%/24%              | 77%/76%                     | 0.98/0.84                                              | 18%/18%              | 82%/82%                     |
| -AA028                        | 0.28                     | 27.0                        | 50.0    | 0.95/0.76                                              | 23%/24%              | 77%/76%                     | 0.98/0.85                                              | 18%/18%              | 82%/83%                     |
| -AA029                        | 0.29                     | 26.4                        | 50.0    | 0.96/0.76                                              | 23%/24%              | 76%/76%                     | 0.98/0.85                                              | 18%/18%              | 82%/83%                     |
| -AA030                        | 0.30                     | 25.9                        | 50.0    | 0.96/0.76                                              | 23%/24%              | 76%/76%                     | 0.98/0.86                                              | 17%/18%              | 82%/83%                     |
| -AA031                        | 0.31                     | 25.4                        | 50.0    | 0.96/0.76                                              | 23%/23%              | 76%/76%                     | 0.98/0.86                                              | 17%/18%              | 82%/83%                     |
| -AA032                        | 0.32                     | 24.9                        | 50.0    | 0.96/0.77                                              | 23%/23%              | 76%/76%                     | 0.98/0.87                                              | 17%/18%              | 82%/83%                     |
| -AA033                        | 0.33                     | 24.3                        | 50.0    | 0.96/0.77                                              | 23%/23%              | 76%/76%                     | 0.98/0.87                                              | 16%/18%              | 82%/83%                     |
| -AA034                        | 0.34                     | 23.8                        | 50.0    | 0.96/0.77                                              | 23%/23%              | 76%/76%                     | 0.98/0.87                                              | 16%/18%              | 82%/84%                     |
| -AA035                        | 0.35                     | 23.3                        | 50.0    | 0.96/0.77                                              | 23%/23%              | 75%/75%                     | 0.98/0.88                                              | 16%/17%              | 83%/84%                     |
| -AA036                        | 0.36                     | 22.9                        | 48.6    | 0.96/0.77                                              | 23%/23%              | 75%/75%                     | 0.98/0.88                                              | 16%/17%              | 83%/84%                     |
| -AA037                        | 0.37                     | 22.4                        | 47.3    | 0.96/0.77                                              | 23%/23%              | 75%/74%                     | 0.98/0.88                                              | 16%/17%              | 83%/84%                     |
| -AA038                        | 0.38                     | 21.9                        | 46.1    | 0.96/0.77                                              | 23%/23%              | 74%/74%                     | 0.98/0.88                                              | 16%/17%              | 82%/84%                     |
| -AA039                        | 0.39                     | 21.4                        | 44.9    | 0.96/0.77                                              | 22%/23%              | 74%/74%                     | 0.98/0.88                                              | 16%/17%              | 82%/84%                     |
| -AA040                        | 0.40                     | 21.0                        | 43.8    | 0.96/0.77                                              | 22%/23%              | 74%/74%                     | 0.98/0.88                                              | 16%/17%              | 82%/84%                     |
| -AA041                        | 0.41                     | 21.0                        | 42.7    | 0.96/0.77                                              | 22%/22%              | 74%/74%                     | 0.98/0.88                                              | 16%/17%              | 82%/83%                     |
| -AA042                        | 0.42                     | 21.0                        | 41.7    | 0.96/0.77                                              | 22%/22%              | 74%/74%                     | 0.98/0.88                                              | 16%/17%              | 82%/83%                     |
| -AA043                        | 0.43                     | 21.0                        | 40.7    | 0.97/0.78                                              | 22%/22%              | 74%/74%                     | 0.98/0.88                                              | 16%/17%              | 82%/83%                     |
| -AA044                        | 0.44                     | 21.0                        | 39.8    | 0.97/0.79                                              | 21%/21%              | 74%/74%                     | 0.98/0.88                                              | 16%/17%              | 81%/83%                     |
| -AA045                        | 0.45                     | 21.0                        | 38.9    | 0.97/0.79                                              | 21%/21%              | 74%/74%                     | 0.98/0.88                                              | 16%/17%              | 81%/83%                     |

\* See [How to Build a Model Number, K-Case Type](#) page for a sample model number.

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## K-Case Models: "B" Output Range

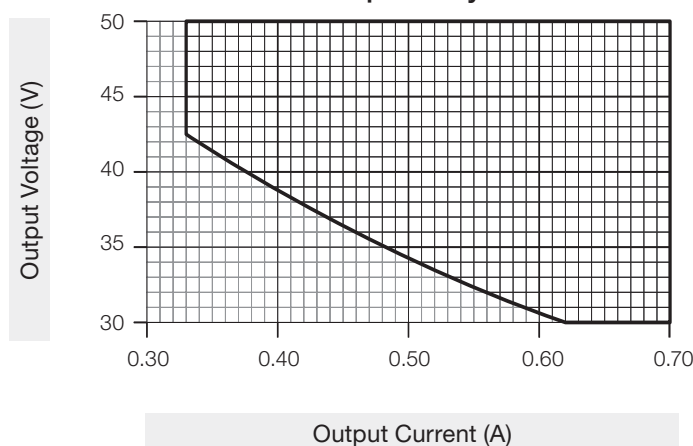
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                 | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 30–50 V $\sim$ | 0.33–0.70 A    | 14–35 W      |   | 75 °C                                    |

\* BLK model LDE14U1UKx-BABLK is NOM certified and available for Mexico. "x" in the model number is either "S" (Studded) or "N" (Non-Studded).

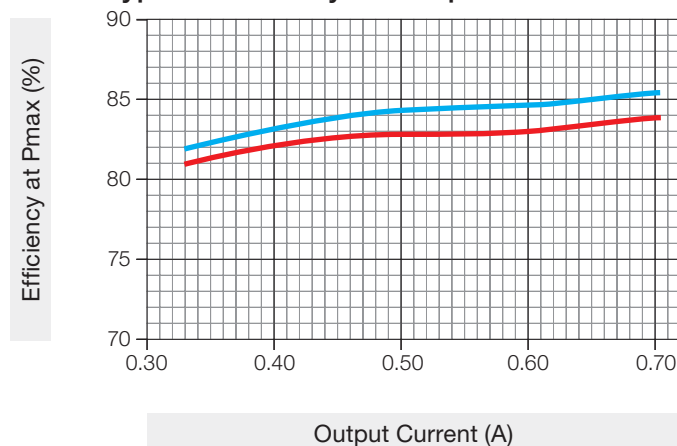
## Typical Performance Specifications

| Parameter         | Value  | Test Conditions                                                                                                                                            |
|-------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.15 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 0.7\text{ A}$ , $V_o = 50\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE14U1UKN-BA070 |
| Power Factor      | 0.96   |                                                                                                                                                            |
| THD               | 17%    |                                                                                                                                                            |
| Driver Efficiency | 87%    |                                                                                                                                                            |

Load Compatibility

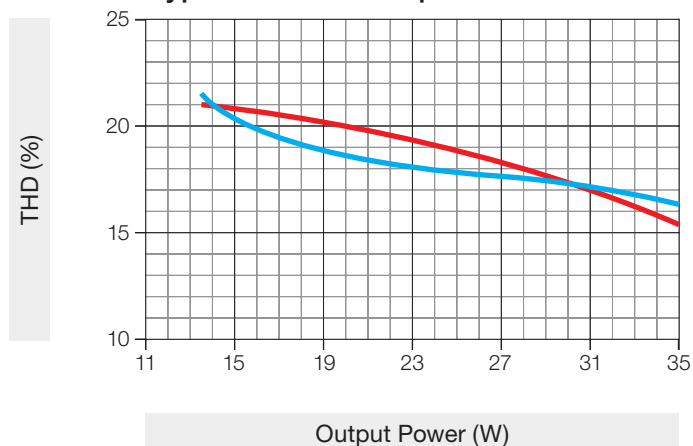


Typical Efficiency vs. Output Current



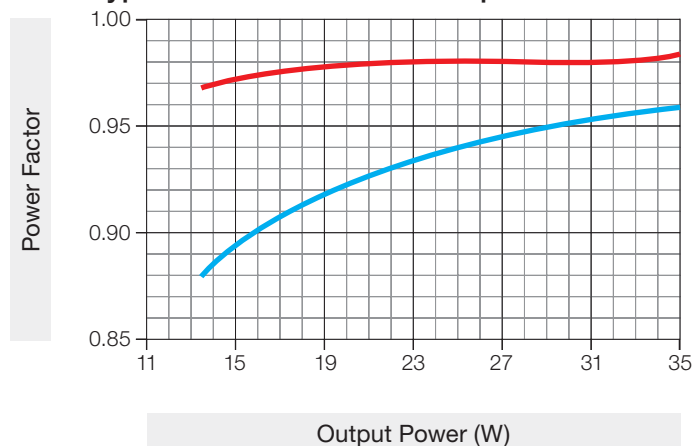
Key: — 120 V $\sim$  — 277 V $\sim$

Typical THD vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

Typical Power Factor vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

continued on next page...

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |



## K-Case Models: “B” Output Range (continued)

## Output Current and Compatible Load Voltage

| Model Number*<br>LDE14U1UKS/N | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|-------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                               |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -BA033                        | 0.33                     | 42.5                        | 50.0    | 0.97/0.88                                              | 21%/21%              | 80%/81%                     | 0.97/0.90                                              | 21%/20%              | 81%/82%                     |
| -BA034                        | 0.34                     | 41.9                        | 50.0    | 0.97/0.88                                              | 21%/21%              | 80%/81%                     | 0.98/0.91                                              | 21%/20%              | 81%/82%                     |
| -BA035                        | 0.35                     | 41.3                        | 50.0    | 0.97/0.89                                              | 21%/21%              | 80%/81%                     | 0.98/0.91                                              | 20%/20%              | 81%/82%                     |
| -BA036                        | 0.36                     | 40.7                        | 50.0    | 0.97/0.89                                              | 21%/21%              | 80%/81%                     | 0.98/0.91                                              | 20%/19%              | 81%/82%                     |
| -BA037                        | 0.37                     | 40.2                        | 50.0    | 0.97/0.89                                              | 21%/21%              | 80%/82%                     | 0.98/0.92                                              | 20%/19%              | 82%/83%                     |
| -BA038                        | 0.38                     | 39.6                        | 50.0    | 0.97/0.89                                              | 21%/21%              | 80%/82%                     | 0.98/0.92                                              | 20%/19%              | 82%/83%                     |
| -BA039                        | 0.39                     | 39.1                        | 50.0    | 0.97/0.89                                              | 21%/21%              | 81%/82%                     | 0.98/0.92                                              | 20%/19%              | 82%/83%                     |
| -BA040                        | 0.40                     | 38.5                        | 50.0    | 0.97/0.90                                              | 21%/21%              | 81%/82%                     | 0.98/0.92                                              | 20%/19%              | 82%/83%                     |
| -BA041                        | 0.41                     | 38.0                        | 50.0    | 0.97/0.90                                              | 21%/20%              | 81%/82%                     | 0.98/0.93                                              | 20%/18%              | 82%/83%                     |
| -BA042                        | 0.42                     | 37.5                        | 50.0    | 0.97/0.90                                              | 21%/20%              | 81%/82%                     | 0.98/0.93                                              | 20%/18%              | 82%/83%                     |
| -BA043                        | 0.43                     | 37.0                        | 50.0    | 0.97/0.90                                              | 21%/20%              | 81%/82%                     | 0.98/0.93                                              | 20%/18%              | 82%/84%                     |
| -BA044                        | 0.44                     | 36.5                        | 50.0    | 0.97/0.90                                              | 21%/20%              | 81%/82%                     | 0.98/0.93                                              | 20%/18%              | 82%/84%                     |
| -BA045                        | 0.45                     | 36.1                        | 50.0    | 0.97/0.90                                              | 21%/20%              | 81%/82%                     | 0.98/0.93                                              | 20%/18%              | 82%/84%                     |
| -BA046                        | 0.46                     | 35.6                        | 50.0    | 0.97/0.90                                              | 21%/20%              | 81%/82%                     | 0.98/0.93                                              | 19%/18%              | 82%/84%                     |
| -BA047                        | 0.47                     | 35.2                        | 50.0    | 0.97/0.91                                              | 21%/20%              | 81%/82%                     | 0.98/0.94                                              | 19%/18%              | 82%/84%                     |
| -BA048                        | 0.48                     | 34.7                        | 50.0    | 0.97/0.91                                              | 21%/20%              | 81%/82%                     | 0.98/0.94                                              | 19%/18%              | 83%/84%                     |
| -BA049                        | 0.49                     | 34.3                        | 50.0    | 0.98/0.91                                              | 21%/20%              | 81%/82%                     | 0.98/0.94                                              | 19%/18%              | 83%/84%                     |
| -BA050                        | 0.50                     | 33.9                        | 50.0    | 0.98/0.91                                              | 21%/20%              | 81%/82%                     | 0.98/0.94                                              | 19%/18%              | 83%/84%                     |
| -BA051                        | 0.51                     | 33.5                        | 50.0    | 0.98/0.91                                              | 21%/20%              | 81%/82%                     | 0.98/0.94                                              | 19%/18%              | 83%/84%                     |
| -BA052                        | 0.52                     | 33.1                        | 50.0    | 0.98/0.91                                              | 20%/19%              | 81%/82%                     | 0.98/0.94                                              | 19%/18%              | 83%/84%                     |
| -BA053                        | 0.53                     | 32.8                        | 50.0    | 0.98/0.91                                              | 20%/19%              | 81%/82%                     | 0.98/0.94                                              | 19%/18%              | 83%/84%                     |
| -BA054                        | 0.54                     | 32.4                        | 50.0    | 0.98/0.91                                              | 20%/19%              | 81%/82%                     | 0.98/0.94                                              | 18%/18%              | 83%/84%                     |
| -BA055                        | 0.55                     | 32.1                        | 50.0    | 0.98/0.91                                              | 20%/19%              | 81%/82%                     | 0.98/0.95                                              | 18%/18%              | 83%/84%                     |
| -BA056                        | 0.56                     | 31.7                        | 50.0    | 0.98/0.91                                              | 20%/19%              | 81%/82%                     | 0.98/0.95                                              | 18%/17%              | 83%/84%                     |
| -BA057                        | 0.57                     | 31.4                        | 50.0    | 0.98/0.91                                              | 20%/19%              | 81%/82%                     | 0.98/0.95                                              | 18%/17%              | 83%/84%                     |
| -BA058                        | 0.58                     | 31.1                        | 50.0    | 0.98/0.91                                              | 20%/19%              | 81%/82%                     | 0.98/0.95                                              | 18%/17%              | 83%/84%                     |
| -BA059                        | 0.59                     | 30.8                        | 50.0    | 0.98/0.91                                              | 20%/19%              | 81%/82%                     | 0.98/0.95                                              | 18%/17%              | 83%/84%                     |
| -BA060                        | 0.60                     | 30.5                        | 50.0    | 0.98/0.91                                              | 20%/19%              | 81%/82%                     | 0.98/0.95                                              | 18%/17%              | 83%/84%                     |
| -BA061                        | 0.61                     | 30.3                        | 50.0    | 0.98/0.92                                              | 20%/19%              | 81%/82%                     | 0.98/0.95                                              | 17%/17%              | 83%/85%                     |
| -BA062                        | 0.62                     | 30.0                        | 50.0    | 0.98/0.92                                              | 20%/19%              | 81%/82%                     | 0.98/0.95                                              | 17%/17%              | 83%/85%                     |
| -BA063                        | 0.63                     | 30.0                        | 50.0    | 0.98/0.92                                              | 20%/19%              | 81%/83%                     | 0.98/0.95                                              | 17%/17%              | 83%/85%                     |
| -BA064                        | 0.64                     | 30.0                        | 50.0    | 0.98/0.92                                              | 20%/19%              | 81%/83%                     | 0.98/0.96                                              | 17%/17%              | 83%/85%                     |
| -BA065                        | 0.65                     | 30.0                        | 50.0    | 0.98/0.92                                              | 20%/19%              | 81%/83%                     | 0.98/0.96                                              | 17%/17%              | 83%/85%                     |
| -BA066                        | 0.66                     | 30.0                        | 50.0    | 0.98/0.92                                              | 20%/19%              | 82%/83%                     | 0.98/0.96                                              | 16%/17%              | 83%/85%                     |
| -BA067                        | 0.67                     | 30.0                        | 50.0    | 0.98/0.92                                              | 20%/19%              | 82%/83%                     | 0.98/0.96                                              | 16%/17%              | 83%/85%                     |
| -BA068                        | 0.68                     | 30.0                        | 50.0    | 0.98/0.92                                              | 20%/18%              | 82%/83%                     | 0.98/0.96                                              | 16%/17%              | 83%/85%                     |
| -BA069                        | 0.69                     | 30.0                        | 50.0    | 0.98/0.93                                              | 20%/18%              | 82%/83%                     | 0.98/0.96                                              | 16%/16%              | 84%/85%                     |
| -BA070                        | 0.70                     | 30.0                        | 50.0    | 0.98/0.93                                              | 20%/18%              | 82%/83%                     | 0.98/0.96                                              | 16%/16%              | 84%/85%                     |

\* See How to Build a Model Number, K-Case Type page for a sample model number.

 SPECIFICATION SUBMITTAL

Page

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|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## K-Case Models: "C" Output Range

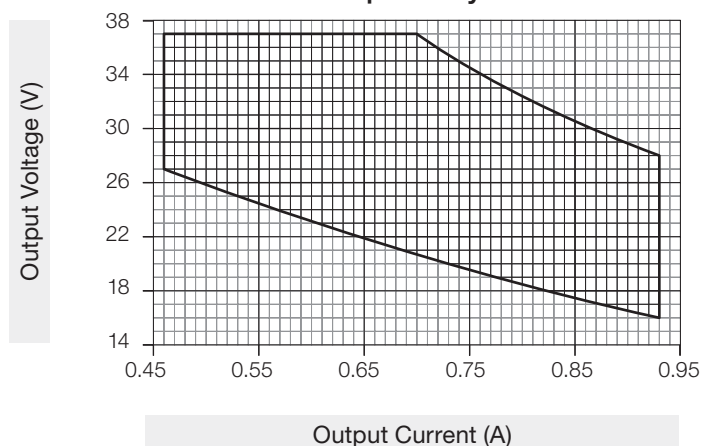
| Driver Type                       | Output Voltage   | Output Current | Output Power | Standards Recognition                                                                                                                                                  | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|------------------|----------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 16–37.1 V $\sim$ | 0.46–0.93 A    | 13–26 W      |   | 75 °C                                    |

\* BLK model LDE14U1UKx-CABLK is NOM certified and available for Mexico. "x" in the model number is either "S" (Studded) or "N" (Non-Studded).

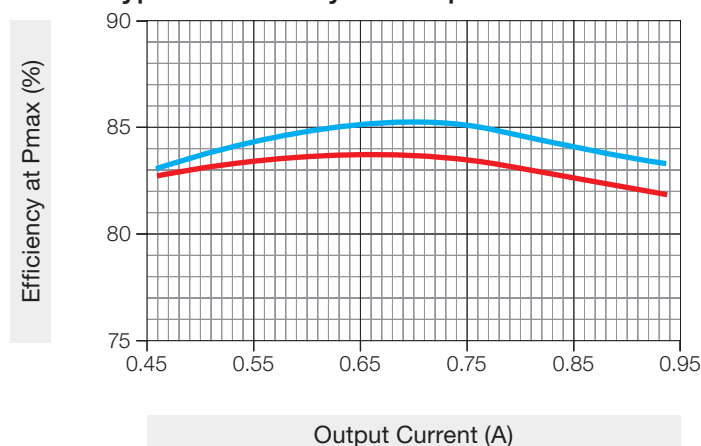
## Typical Performance Specifications

| Parameter         | Value  | Test Conditions                                                                                                                                             |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.12 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 0.93\text{ A}$ , $V_o = 28\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE14U1UKN-CA093 |
| Power Factor      | 0.95   |                                                                                                                                                             |
| THD               | 16%    |                                                                                                                                                             |
| Driver Efficiency | 83%    |                                                                                                                                                             |

Load Compatibility

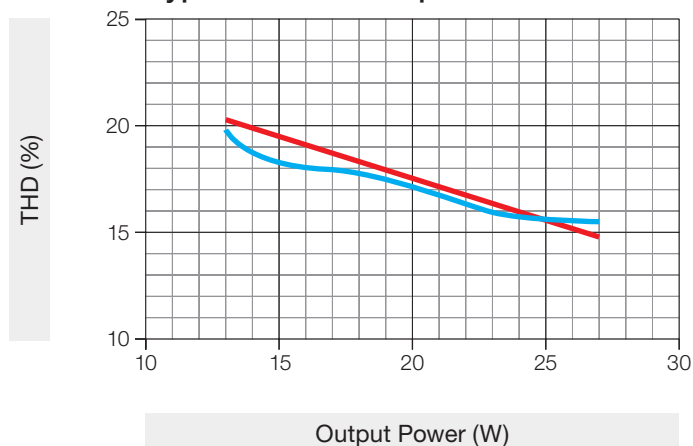


Typical Efficiency vs. Output Current



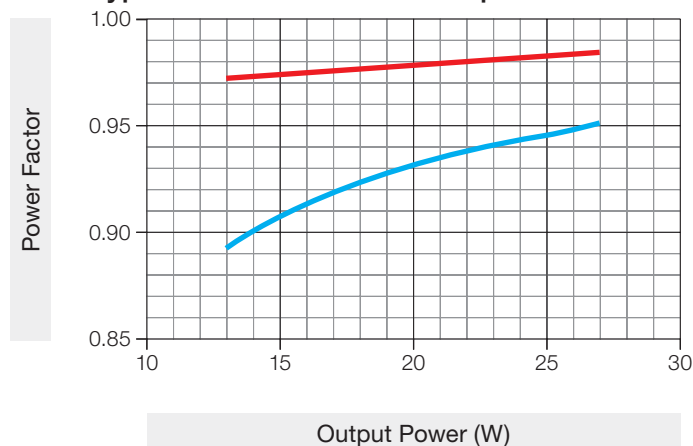
Key: — 120 V $\sim$  — 277 V $\sim$

Typical THD vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

Typical Power Factor vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

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|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## K-Case Models: “C” Output Range (continued)

## Output Current and Compatible Load Voltage

| Model Number*<br>LDE14U1UKS/N | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|-------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                               |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -CA046                        | 0.46                     | 27.1                        | 37.1    | 0.97/0.89                                              | 21%/20%              | 80%/80%                     | 0.98/0.92                                              | 19%/18%              | 83%/83%                     |
| -CA047                        | 0.47                     | 26.8                        | 37.1    | 0.97/0.89                                              | 21%/20%              | 80%/80%                     | 0.98/0.92                                              | 19%/18%              | 83%/83%                     |
| -CA048                        | 0.48                     | 26.5                        | 37.1    | 0.97/0.89                                              | 21%/20%              | 80%/80%                     | 0.98/0.92                                              | 18%/18%              | 83%/83%                     |
| -CA049                        | 0.49                     | 26.2                        | 37.1    | 0.97/0.90                                              | 21%/20%              | 80%/80%                     | 0.98/0.92                                              | 18%/18%              | 83%/84%                     |
| -CA050                        | 0.50                     | 25.9                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 80%/80%                     | 0.98/0.92                                              | 18%/18%              | 83%/84%                     |
| -CA051                        | 0.51                     | 25.6                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 80%/80%                     | 0.98/0.93                                              | 18%/17%              | 83%/84%                     |
| -CA052                        | 0.52                     | 25.3                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 80%/80%                     | 0.98/0.93                                              | 18%/17%              | 83%/84%                     |
| -CA053                        | 0.53                     | 25.0                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 80%/80%                     | 0.98/0.93                                              | 18%/17%              | 83%/84%                     |
| -CA054                        | 0.54                     | 24.7                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 80%/80%                     | 0.98/0.93                                              | 18%/17%              | 84%/84%                     |
| -CA055                        | 0.55                     | 24.4                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 80%/80%                     | 0.98/0.93                                              | 17%/17%              | 84%/84%                     |
| -CA056                        | 0.56                     | 24.2                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 80%/80%                     | 0.98/0.93                                              | 17%/17%              | 84%/85%                     |
| -CA057                        | 0.57                     | 23.9                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 80%/80%                     | 0.98/0.93                                              | 17%/17%              | 84%/85%                     |
| -CA058                        | 0.58                     | 23.6                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/80%                     | 0.98/0.93                                              | 17%/17%              | 84%/85%                     |
| -CA059                        | 0.59                     | 23.3                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/80%                     | 0.98/0.94                                              | 17%/16%              | 84%/85%                     |
| -CA060                        | 0.60                     | 23.1                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/80%                     | 0.98/0.94                                              | 17%/16%              | 84%/85%                     |
| -CA061                        | 0.61                     | 22.8                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/80%                     | 0.98/0.94                                              | 17%/16%              | 84%/85%                     |
| -CA062                        | 0.62                     | 22.5                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/80%                     | 0.98/0.94                                              | 16%/16%              | 84%/85%                     |
| -CA063                        | 0.63                     | 22.3                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/80%                     | 0.98/0.94                                              | 16%/16%              | 84%/85%                     |
| -CA064                        | 0.64                     | 22.0                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/80%                     | 0.98/0.94                                              | 16%/16%              | 84%/85%                     |
| -CA065                        | 0.65                     | 21.8                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/80%                     | 0.98/0.94                                              | 16%/16%              | 84%/85%                     |
| -CA066                        | 0.66                     | 21.5                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/79%                     | 0.98/0.94                                              | 16%/16%              | 84%/85%                     |
| -CA067                        | 0.67                     | 21.3                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/79%                     | 0.98/0.94                                              | 16%/16%              | 84%/85%                     |
| -CA068                        | 0.68                     | 21.0                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/79%                     | 0.98/0.94                                              | 15%/16%              | 84%/85%                     |
| -CA069                        | 0.69                     | 20.8                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/79%                     | 0.98/0.95                                              | 15%/16%              | 84%/85%                     |
| -CA070                        | 0.70                     | 20.6                        | 37.1    | 0.97/0.90                                              | 20%/19%              | 79%/79%                     | 0.98/0.95                                              | 15%/16%              | 84%/85%                     |
| -CA071                        | 0.71                     | 20.3                        | 36.6    | 0.97/0.90                                              | 20%/19%              | 78%/79%                     | 0.98/0.95                                              | 15%/16%              | 84%/85%                     |
| -CA072                        | 0.72                     | 20.1                        | 36.1    | 0.97/0.90                                              | 20%/18%              | 78%/79%                     | 0.98/0.95                                              | 15%/16%              | 84%/85%                     |
| -CA073                        | 0.73                     | 19.9                        | 35.6    | 0.97/0.90                                              | 20%/18%              | 78%/79%                     | 0.98/0.95                                              | 15%/16%              | 84%/85%                     |
| -CA074                        | 0.74                     | 19.6                        | 35.1    | 0.97/0.90                                              | 20%/18%              | 78%/79%                     | 0.98/0.95                                              | 15%/16%              | 84%/85%                     |
| -CA075                        | 0.75                     | 19.4                        | 34.7    | 0.97/0.90                                              | 20%/18%              | 78%/79%                     | 0.98/0.95                                              | 15%/16%              | 83%/85%                     |
| -CA076                        | 0.76                     | 19.2                        | 34.2    | 0.97/0.90                                              | 20%/18%              | 78%/79%                     | 0.98/0.95                                              | 15%/16%              | 83%/85%                     |
| -CA077                        | 0.77                     | 19.0                        | 33.8    | 0.97/0.90                                              | 20%/18%              | 78%/78%                     | 0.98/0.95                                              | 15%/16%              | 83%/85%                     |
| -CA078                        | 0.78                     | 18.8                        | 33.3    | 0.97/0.90                                              | 20%/18%              | 78%/78%                     | 0.98/0.95                                              | 15%/16%              | 83%/85%                     |
| -CA079                        | 0.79                     | 18.6                        | 32.9    | 0.97/0.90                                              | 19%/18%              | 78%/78%                     | 0.98/0.95                                              | 15%/16%              | 83%/85%                     |
| -CA080                        | 0.80                     | 18.4                        | 32.5    | 0.97/0.90                                              | 19%/18%              | 77%/78%                     | 0.98/0.95                                              | 15%/16%              | 83%/85%                     |
| -CA081                        | 0.81                     | 18.2                        | 32.1    | 0.97/0.91                                              | 19%/18%              | 77%/78%                     | 0.98/0.95                                              | 15%/16%              | 83%/84%                     |
| -CA082                        | 0.82                     | 18.0                        | 31.7    | 0.97/0.91                                              | 19%/18%              | 77%/78%                     | 0.98/0.95                                              | 15%/16%              | 83%/84%                     |
| -CA083                        | 0.83                     | 17.8                        | 31.3    | 0.97/0.91                                              | 19%/18%              | 77%/78%                     | 0.98/0.95                                              | 15%/16%              | 83%/84%                     |

\* See How to Build a Model Number, K-Case Type page for a sample model number.

continued on next page...



## SPECIFICATION SUBMITTAL

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| Job Name:   | Model Numbers: |
| Job Number: |                |

K-Case Models: “C” Output Range *(continued)*Output Current and Compatible Load Voltage *(continued)*

| Model Number*<br>LDE14U1UKS/N | Rated<br>Output<br>Current<br>(A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                    | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                    |
|-------------------------------|-----------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|------------------------------------|-----------------------------------------------------------|-----------------------------|------------------------------------|
|                               |                                   | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at 120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at 120 V~/<br>277 V~ |
| -CA084                        | 0.84                              | 17.6                           | 31.0    | 0.97/0.91                                                 | 19%/18%                     | 77%/78%                            | 0.98/0.95                                                 | 15%/16%                     | 83%/84%                            |
| -CA085                        | 0.85                              | 17.4                           | 30.6    | 0.97/0.91                                                 | 19%/18%                     | 77%/78%                            | 0.98/0.95                                                 | 15%/16%                     | 83%/84%                            |
| -CA086                        | 0.86                              | 17.2                           | 30.2    | 0.97/0.91                                                 | 19%/18%                     | 77%/78%                            | 0.98/0.95                                                 | 15%/16%                     | 83%/84%                            |
| -CA087                        | 0.87                              | 17.0                           | 29.9    | 0.97/0.91                                                 | 19%/18%                     | 77%/77%                            | 0.98/0.95                                                 | 15%/16%                     | 83%/84%                            |
| -CA088                        | 0.88                              | 16.8                           | 29.5    | 0.97/0.91                                                 | 19%/18%                     | 77%/77%                            | 0.98/0.95                                                 | 15%/16%                     | 82%/84%                            |
| -CA089                        | 0.89                              | 16.7                           | 29.2    | 0.97/0.91                                                 | 19%/18%                     | 77%/77%                            | 0.98/0.95                                                 | 15%/16%                     | 82%/84%                            |
| -CA090                        | 0.90                              | 16.5                           | 28.9    | 0.97/0.91                                                 | 19%/18%                     | 77%/77%                            | 0.98/0.95                                                 | 15%/16%                     | 82%/84%                            |
| -CA091                        | 0.91                              | 16.3                           | 28.6    | 0.97/0.91                                                 | 19%/18%                     | 76%/77%                            | 0.98/0.95                                                 | 15%/16%                     | 82%/84%                            |
| -CA092                        | 0.92                              | 16.2                           | 28.3    | 0.97/0.91                                                 | 19%/18%                     | 76%/77%                            | 0.98/0.95                                                 | 15%/16%                     | 82%/84%                            |
| -CA093                        | 0.93                              | 16.0                           | 28.0    | 0.97/0.91                                                 | 19%/18%                     | 76%/77%                            | 0.98/0.95                                                 | 15%/16%                     | 82%/83%                            |

\* See **How to Build a Model Number, K-Case Type** page for a sample model number.

Job Name:

Model Numbers:

Job Number:

## K-Case Models: "D" Output Range

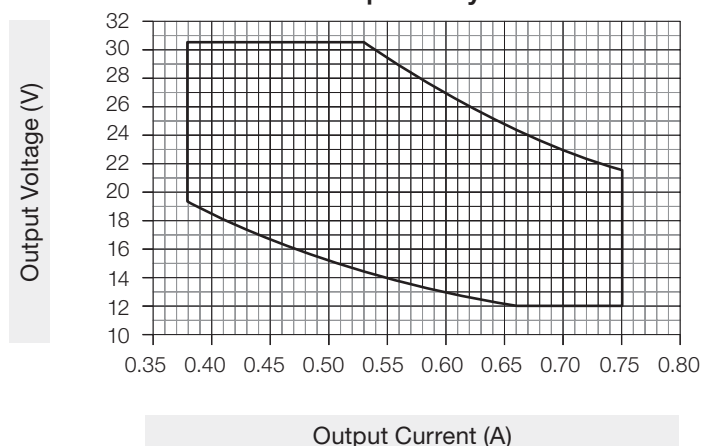
| Driver Type                       | Output Voltage   | Output Current | Output Power | Standards Recognition                                                                                                                                                  | Maximum Rated Temp. @ t <sub>c</sub> for Warranty |
|-----------------------------------|------------------|----------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Constant Current Driver (Class 2) | 12–30.2 V $\sim$ | 0.38–0.75 A    | 8–16 W       |   | 75 °C                                             |

\* BLK model LDE14U1UKx-DABLK is NOM certified and available for Mexico. "x" in the model number is either "S" (Studded) or "N" (Non-Studded).

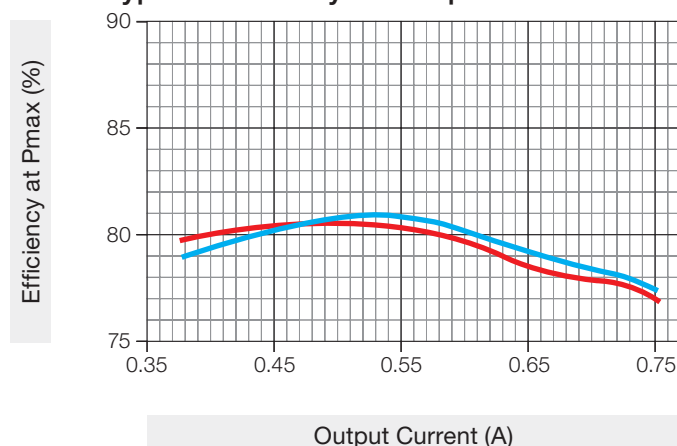
## Typical Performance Specifications

| Parameter         | Value  | Test Conditions                                                                                                                                               |
|-------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.09 A | V <sub>i</sub> = 277 V $\sim$ , t <sub>a</sub> = 25 °C, I <sub>o</sub> = 0.75 A, V <sub>o</sub> = 21.3 V $\sim$ ,<br>Maximum Light Output<br>LDE14U1UKN-DA075 |
| Power Factor      | 0.89   |                                                                                                                                                               |
| THD               | 20%    |                                                                                                                                                               |
| Driver Efficiency | 77%    |                                                                                                                                                               |

Load Compatibility

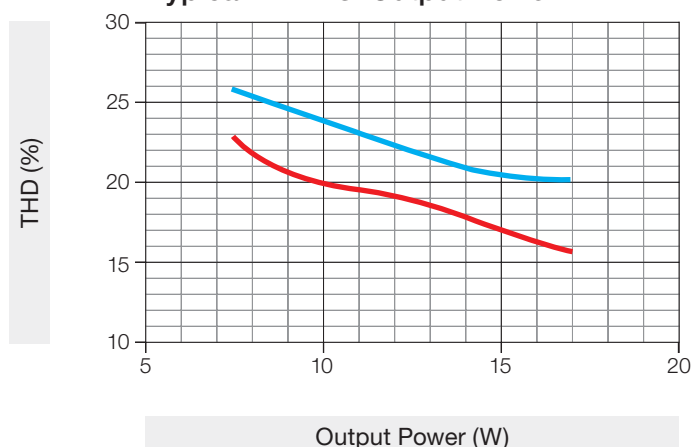


Typical Efficiency vs. Output Current



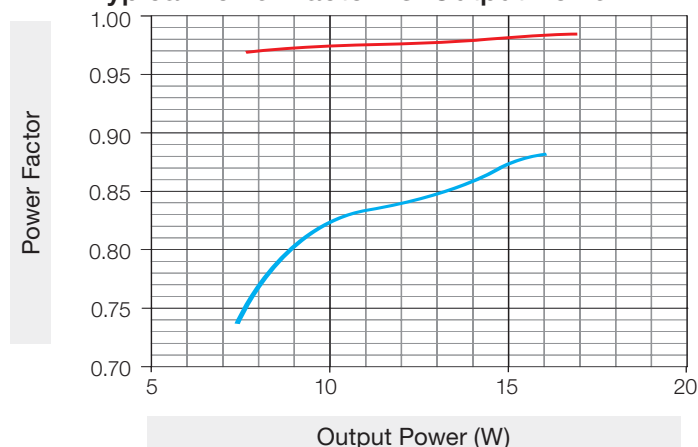
Key: — 120 V $\sim$  — 277 V $\sim$

Typical THD vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

Typical Power Factor vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

continued on next page...

Job Name:

Model Numbers:

Job Number:

## K-Case Models: “D” Output Range (continued)

## Output Current and Compatible Load Voltage

| Model Number*<br>LDE14U1UKS/N | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|-------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                               |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -DA038                        | 0.38                     | 19.5                        | 30.2    | 0.96/0.74                                              | 23%/26%              | 74%/72%                     | 0.97/0.83                                              | 20%/23%              | 80%/79%                     |
| -DA039                        | 0.39                     | 19.1                        | 30.2    | 0.96/0.74                                              | 23%/26%              | 74%/72%                     | 0.97/0.84                                              | 19%/23%              | 80%/79%                     |
| -DA040                        | 0.40                     | 18.7                        | 30.2    | 0.96/0.74                                              | 23%/26%              | 74%/72%                     | 0.97/0.84                                              | 19%/23%              | 80%/79%                     |
| -DA041                        | 0.41                     | 18.4                        | 30.2    | 0.96/0.74                                              | 23%/26%              | 74%/72%                     | 0.97/0.84                                              | 19%/22%              | 80%/80%                     |
| -DA042                        | 0.42                     | 18.0                        | 30.2    | 0.96/0.74                                              | 23%/26%              | 74%/72%                     | 0.97/0.85                                              | 19%/22%              | 80%/80%                     |
| -DA043                        | 0.43                     | 17.7                        | 30.2    | 0.96/0.75                                              | 23%/26%              | 73%/72%                     | 0.97/0.85                                              | 19%/22%              | 80%/80%                     |
| -DA044                        | 0.44                     | 17.3                        | 30.2    | 0.96/0.75                                              | 23%/26%              | 73%/72%                     | 0.97/0.85                                              | 18%/22%              | 80%/80%                     |
| -DA045                        | 0.45                     | 17.0                        | 30.2    | 0.96/0.75                                              | 23%/26%              | 73%/71%                     | 0.97/0.86                                              | 18%/21%              | 80%/80%                     |
| -DA046                        | 0.46                     | 16.7                        | 30.2    | 0.96/0.75                                              | 23%/26%              | 73%/71%                     | 0.97/0.86                                              | 18%/21%              | 80%/80%                     |
| -DA047                        | 0.47                     | 16.4                        | 30.2    | 0.96/0.75                                              | 23%/26%              | 73%/71%                     | 0.97/0.86                                              | 18%/21%              | 81%/81%                     |
| -DA048                        | 0.48                     | 16.1                        | 30.2    | 0.96/0.75                                              | 23%/26%              | 73%/71%                     | 0.98/0.87                                              | 17%/21%              | 81%/81%                     |
| -DA049                        | 0.49                     | 15.8                        | 30.2    | 0.96/0.75                                              | 23%/26%              | 72%/71%                     | 0.98/0.87                                              | 17%/21%              | 81%/81%                     |
| -DA050                        | 0.50                     | 15.5                        | 30.2    | 0.96/0.76                                              | 23%/26%              | 72%/71%                     | 0.98/0.87                                              | 17%/21%              | 81%/81%                     |
| -DA051                        | 0.51                     | 15.2                        | 30.2    | 0.96/0.76                                              | 22%/26%              | 72%/71%                     | 0.98/0.87                                              | 17%/20%              | 81%/81%                     |
| -DA052                        | 0.52                     | 15.0                        | 30.2    | 0.96/0.76                                              | 22%/25%              | 72%/71%                     | 0.98/0.88                                              | 17%/20%              | 81%/81%                     |
| -DA053                        | 0.53                     | 14.7                        | 30.2    | 0.96/0.76                                              | 22%/25%              | 72%/71%                     | 0.98/0.88                                              | 16%/20%              | 81%/81%                     |
| -DA054                        | 0.54                     | 14.5                        | 29.6    | 0.96/0.76                                              | 22%/25%              | 72%/71%                     | 0.98/0.88                                              | 16%/20%              | 81%/81%                     |
| -DA055                        | 0.55                     | 14.2                        | 29.1    | 0.96/0.77                                              | 22%/25%              | 72%/70%                     | 0.98/0.88                                              | 16%/20%              | 81%/81%                     |
| -DA056                        | 0.56                     | 14.0                        | 28.6    | 0.96/0.77                                              | 22%/25%              | 71%/70%                     | 0.98/0.88                                              | 16%/20%              | 80%/81%                     |
| -DA057                        | 0.57                     | 13.8                        | 28.1    | 0.96/0.77                                              | 22%/25%              | 71%/70%                     | 0.98/0.88                                              | 16%/20%              | 80%/81%                     |
| -DA058                        | 0.58                     | 13.5                        | 27.6    | 0.96/0.77                                              | 22%/25%              | 71%/70%                     | 0.98/0.88                                              | 16%/20%              | 80%/80%                     |
| -DA059                        | 0.59                     | 13.3                        | 27.1    | 0.96/0.77                                              | 22%/25%              | 71%/70%                     | 0.98/0.88                                              | 16%/20%              | 80%/80%                     |
| -DA060                        | 0.60                     | 13.1                        | 26.7    | 0.96/0.77                                              | 22%/25%              | 71%/70%                     | 0.98/0.88                                              | 16%/20%              | 80%/80%                     |
| -DA061                        | 0.61                     | 12.9                        | 26.2    | 0.96/0.77                                              | 22%/25%              | 71%/69%                     | 0.98/0.88                                              | 16%/20%              | 80%/80%                     |
| -DA062                        | 0.62                     | 12.8                        | 25.8    | 0.96/0.77                                              | 22%/25%              | 71%/69%                     | 0.98/0.88                                              | 16%/20%              | 79%/80%                     |
| -DA063                        | 0.63                     | 12.6                        | 25.4    | 0.96/0.77                                              | 22%/25%              | 70%/69%                     | 0.98/0.88                                              | 16%/20%              | 79%/80%                     |
| -DA064                        | 0.64                     | 12.4                        | 25.0    | 0.96/0.77                                              | 22%/25%              | 70%/69%                     | 0.98/0.88                                              | 16%/20%              | 79%/79%                     |
| -DA065                        | 0.65                     | 12.2                        | 24.6    | 0.96/0.77                                              | 22%/25%              | 70%/69%                     | 0.98/0.88                                              | 16%/20%              | 79%/79%                     |
| -DA066                        | 0.66                     | 12.1                        | 24.2    | 0.96/0.78                                              | 22%/25%              | 70%/69%                     | 0.98/0.88                                              | 16%/20%              | 79%/79%                     |
| -DA067                        | 0.67                     | 12.0                        | 23.9    | 0.96/0.78                                              | 22%/25%              | 70%/69%                     | 0.98/0.88                                              | 16%/20%              | 79%/79%                     |
| -DA068                        | 0.68                     | 12.0                        | 23.5    | 0.96/0.78                                              | 22%/25%              | 70%/69%                     | 0.98/0.88                                              | 16%/20%              | 78%/79%                     |
| -DA069                        | 0.69                     | 12.0                        | 23.2    | 0.96/0.78                                              | 22%/25%              | 70%/69%                     | 0.98/0.88                                              | 16%/20%              | 78%/79%                     |
| -DA070                        | 0.70                     | 12.0                        | 22.9    | 0.96/0.79                                              | 22%/25%              | 70%/68%                     | 0.98/0.88                                              | 16%/20%              | 78%/79%                     |
| -DA071                        | 0.71                     | 12.0                        | 22.5    | 0.97/0.79                                              | 21%/25%              | 70%/68%                     | 0.98/0.88                                              | 16%/20%              | 78%/78%                     |
| -DA072                        | 0.72                     | 12.0                        | 22.2    | 0.97/0.79                                              | 21%/25%              | 69%/68%                     | 0.98/0.89                                              | 16%/20%              | 78%/78%                     |
| -DA073                        | 0.73                     | 12.0                        | 21.9    | 0.97/0.79                                              | 21%/25%              | 69%/68%                     | 0.98/0.89                                              | 16%/20%              | 78%/78%                     |
| -DA074                        | 0.74                     | 12.0                        | 21.6    | 0.97/0.80                                              | 21%/25%              | 69%/68%                     | 0.98/0.89                                              | 16%/20%              | 77%/78%                     |
| -DA075                        | 0.75                     | 12.0                        | 21.3    | 0.97/0.82                                              | 21%/25%              | 69%/68%                     | 0.98/0.89                                              | 16%/20%              | 77%/78%                     |

\* See How to Build a Model Number, K-Case Type page for a sample model number.

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| Job Name:   | Model Numbers: |
| Job Number: |                |



## K-Case Models: "E" Output Range

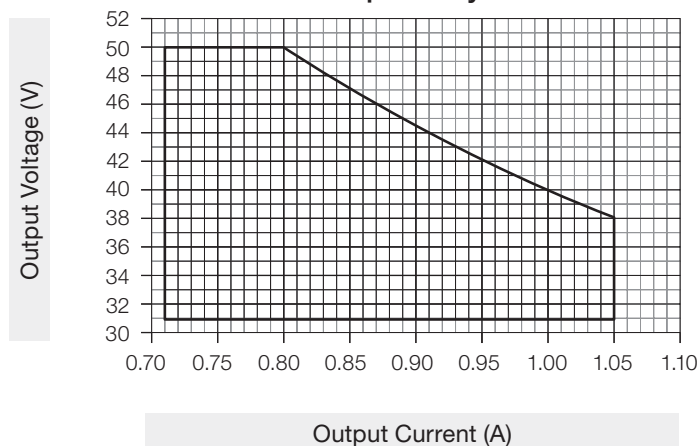
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                 | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 31–50 V $\sim$ | 0.71–1.05 A    | 22–40 W      |   | 75 °C                                    |

\* BLK model LDE14U1UKx-EABLK is NOM certified and available for Mexico. "x" in the model number is either "S" (Studded) or "N" (Non-Studded).

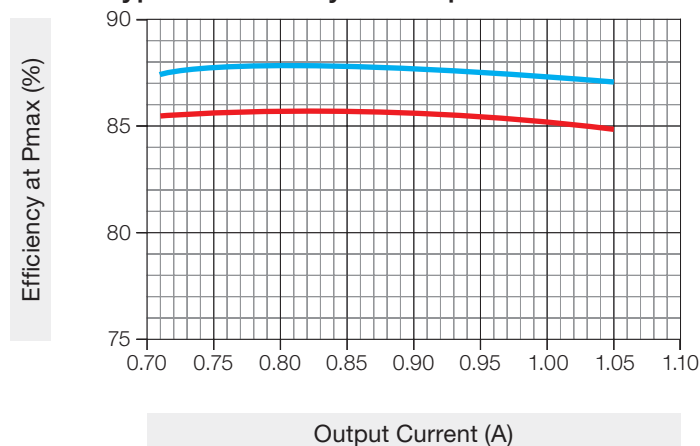
## Typical Performance Specifications

| Parameter         | Value  | Test Conditions                                                                                                                                               |
|-------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.17 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 1.05\text{ A}$ , $V_o = 38.1\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE14U1UKN-EA105 |
| Power Factor      | 0.96   |                                                                                                                                                               |
| THD               | 17%    |                                                                                                                                                               |
| Driver Efficiency | 87%    |                                                                                                                                                               |

Load Compatibility

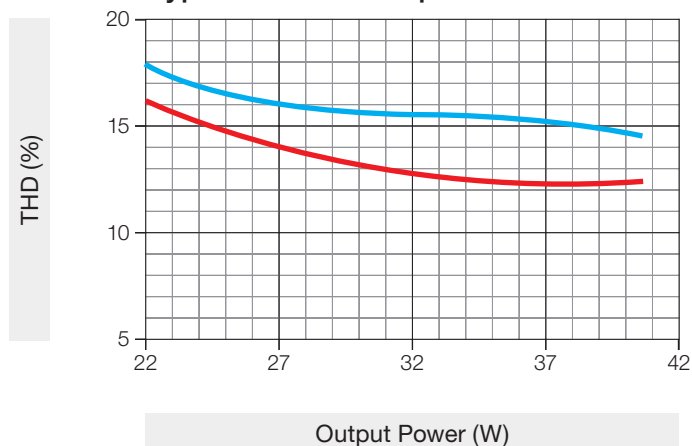


Typical Efficiency vs. Output Current



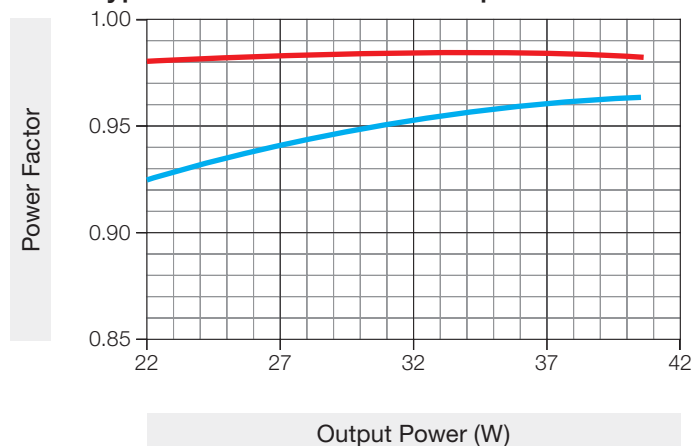
Key: — 120 V $\sim$  — 277 V $\sim$

Typical THD vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

Typical Power Factor vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

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|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |



## K-Case Models: “E” Output Range (continued)

## Output Current and Compatible Load Voltage

| Model Number*<br>LDE14U1UKS/N | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|-------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                               |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -EA071                        | 0.71                     | 31.0                        | 50.0    | 0.98/0.93                                              | 16%/18%              | 82%/83%                     | 0.98/0.96                                              | 13%/15%              | 85%/87%                     |
| -EA072                        | 0.72                     | 31.0                        | 50.0    | 0.98/0.93                                              | 16%/18%              | 82%/83%                     | 0.98/0.96                                              | 13%/15%              | 85%/87%                     |
| -EA073                        | 0.73                     | 31.0                        | 50.0    | 0.98/0.93                                              | 16%/18%              | 82%/83%                     | 0.98/0.96                                              | 13%/15%              | 85%/87%                     |
| -EA074                        | 0.74                     | 31.0                        | 50.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA075                        | 0.75                     | 31.0                        | 50.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA076                        | 0.76                     | 31.0                        | 50.0    | 0.98/0.93                                              | 16%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA077                        | 0.77                     | 31.0                        | 50.0    | 0.98/0.93                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA078                        | 0.78                     | 31.0                        | 50.0    | 0.98/0.93                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA079                        | 0.79                     | 31.0                        | 50.0    | 0.98/0.93                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA080                        | 0.80                     | 31.0                        | 50.0    | 0.98/0.93                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA081                        | 0.81                     | 31.0                        | 49.4    | 0.98/0.94                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA082                        | 0.82                     | 31.0                        | 48.8    | 0.98/0.94                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA083                        | 0.83                     | 31.0                        | 48.2    | 0.98/0.94                                              | 15%/16%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA084                        | 0.84                     | 31.0                        | 47.6    | 0.98/0.94                                              | 15%/16%              | 83%/85%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA085                        | 0.85                     | 31.0                        | 47.1    | 0.98/0.94                                              | 15%/16%              | 83%/85%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA086                        | 0.86                     | 31.0                        | 46.5    | 0.98/0.94                                              | 14%/16%              | 83%/85%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA087                        | 0.87                     | 31.0                        | 46.0    | 0.98/0.94                                              | 14%/16%              | 83%/85%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA088                        | 0.88                     | 31.0                        | 45.5    | 0.98/0.94                                              | 14%/16%              | 83%/85%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA089                        | 0.89                     | 31.0                        | 44.9    | 0.98/0.94                                              | 14%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA090                        | 0.90                     | 31.0                        | 44.4    | 0.98/0.94                                              | 14%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA091                        | 0.91                     | 31.0                        | 44.0    | 0.98/0.94                                              | 14%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 86%/88%                     |
| -EA092                        | 0.92                     | 31.0                        | 43.5    | 0.98/0.94                                              | 14%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/88%                     |
| -EA093                        | 0.93                     | 31.0                        | 43.0    | 0.98/0.94                                              | 14%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/88%                     |
| -EA094                        | 0.94                     | 31.0                        | 42.6    | 0.98/0.95                                              | 14%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/88%                     |
| -EA095                        | 0.95                     | 31.0                        | 42.1    | 0.98/0.95                                              | 14%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA096                        | 0.96                     | 31.0                        | 41.7    | 0.98/0.95                                              | 13%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA097                        | 0.97                     | 31.0                        | 41.2    | 0.98/0.95                                              | 13%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA098                        | 0.98                     | 31.0                        | 40.8    | 0.98/0.95                                              | 13%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA099                        | 0.99                     | 31.0                        | 40.4    | 0.98/0.95                                              | 13%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA100                        | 1.00                     | 31.0                        | 40.0    | 0.98/0.95                                              | 13%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA101                        | 1.01                     | 31.0                        | 39.6    | 0.98/0.95                                              | 13%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA102                        | 1.02                     | 31.0                        | 39.2    | 0.98/0.95                                              | 13%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA103                        | 1.03                     | 31.0                        | 38.8    | 0.98/0.95                                              | 13%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA104                        | 1.04                     | 31.0                        | 38.5    | 0.98/0.95                                              | 13%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -EA105                        | 1.05                     | 31.0                        | 38.1    | 0.98/0.95                                              | 13%/16%              | 84%/85%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |

\* See How to Build a Model Number, K-Case Type page for a sample model number.

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## K-Case Models: "F" Output Range

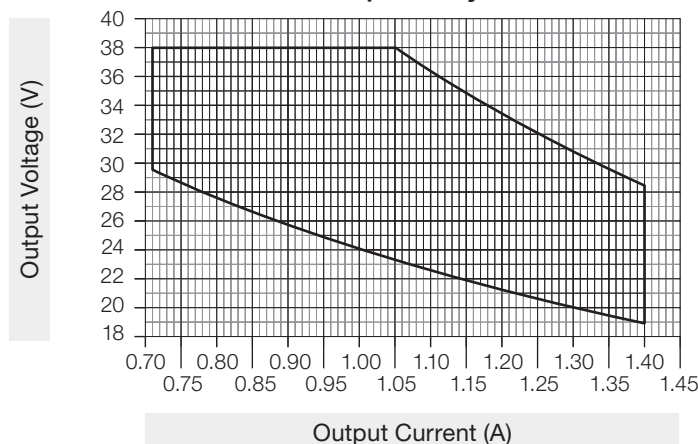
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 19–38 V $\sim$ | 0.71–1.4 A     | 21–40 W      |   | 75 °C                                    |

\* BLK model LDE14U1UKx-FABLK is NOM certified and available for Mexico. "x" in the model number is either "S" (Studded) or "N" (Non-Studded).

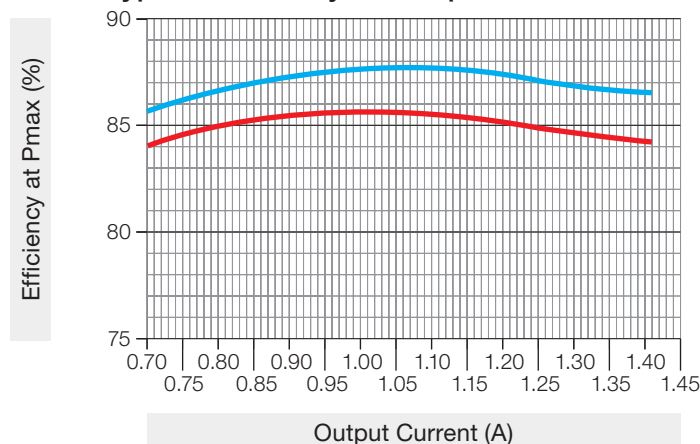
## Typical Performance Specifications

| Parameter         | Value  | Test Conditions                                                                                                                                              |
|-------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.17 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 1.4\text{ A}$ , $V_o = 28.6\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE14U1UKN-FA140 |
| Power Factor      | 0.96   |                                                                                                                                                              |
| THD               | 18%    |                                                                                                                                                              |
| Driver Efficiency | 86%    |                                                                                                                                                              |

Load Compatibility

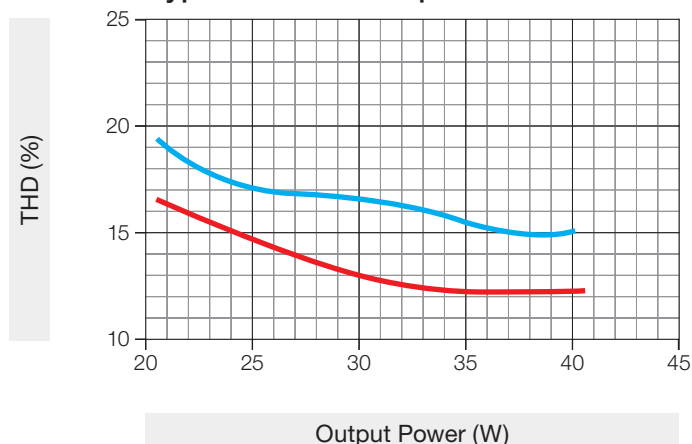


Typical Efficiency vs. Output Current



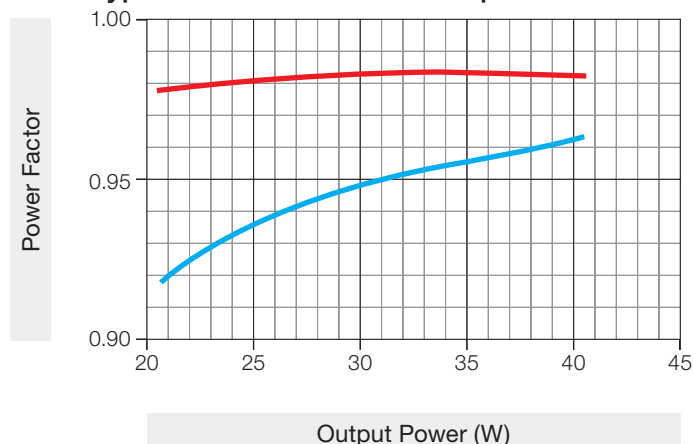
Key: — 120 V $\sim$  — 277 V $\sim$

Typical THD vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

Typical Power Factor vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

continued on next page...

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## K-Case Models: “F” Output Range (continued)

## Output Current and Compatible Load Voltage

| Model Number*<br>LDE14U1UKS/N | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|-------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                               |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -FA071                        | 0.71                     | 29.5                        | 38.0    | 0.98/0.93                                              | 17%/19%              | 82%/84%                     | 0.98/0.94                                              | 14%/17%              | 84%/86%                     |
| -FA072                        | 0.72                     | 29.3                        | 38.0    | 0.98/0.93                                              | 17%/19%              | 82%/84%                     | 0.98/0.94                                              | 14%/17%              | 84%/86%                     |
| -FA073                        | 0.73                     | 29.1                        | 38.0    | 0.98/0.93                                              | 17%/19%              | 82%/84%                     | 0.98/0.94                                              | 14%/17%              | 84%/86%                     |
| -FA074                        | 0.74                     | 28.9                        | 38.0    | 0.98/0.93                                              | 17%/19%              | 82%/84%                     | 0.98/0.94                                              | 14%/17%              | 84%/86%                     |
| -FA075                        | 0.75                     | 28.7                        | 38.0    | 0.98/0.93                                              | 16%/19%              | 82%/84%                     | 0.98/0.94                                              | 13%/17%              | 84%/86%                     |
| -FA076                        | 0.76                     | 28.5                        | 38.0    | 0.98/0.93                                              | 16%/19%              | 82%/84%                     | 0.98/0.94                                              | 13%/17%              | 84%/86%                     |
| -FA077                        | 0.77                     | 28.3                        | 38.0    | 0.98/0.93                                              | 16%/19%              | 83%/84%                     | 0.98/0.95                                              | 13%/17%              | 84%/86%                     |
| -FA078                        | 0.78                     | 28.1                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 13%/17%              | 84%/86%                     |
| -FA079                        | 0.79                     | 27.9                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 13%/17%              | 84%/86%                     |
| -FA080                        | 0.80                     | 27.7                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 13%/17%              | 85%/87%                     |
| -FA081                        | 0.81                     | 27.5                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 13%/16%              | 85%/87%                     |
| -FA082                        | 0.82                     | 27.3                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 13%/16%              | 85%/87%                     |
| -FA083                        | 0.83                     | 27.1                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 13%/16%              | 85%/87%                     |
| -FA084                        | 0.84                     | 27.0                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 12%/16%              | 85%/87%                     |
| -FA085                        | 0.85                     | 26.8                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 12%/16%              | 85%/87%                     |
| -FA086                        | 0.86                     | 26.6                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 12%/16%              | 85%/87%                     |
| -FA087                        | 0.87                     | 26.4                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 12%/16%              | 85%/87%                     |
| -FA088                        | 0.88                     | 26.2                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 12%/16%              | 85%/87%                     |
| -FA089                        | 0.89                     | 26.0                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 12%/16%              | 85%/87%                     |
| -FA090                        | 0.90                     | 25.9                        | 38.0    | 0.98/0.93                                              | 16%/18%              | 83%/84%                     | 0.98/0.95                                              | 12%/16%              | 85%/87%                     |
| -FA091                        | 0.91                     | 25.7                        | 38.0    | 0.98/0.93                                              | 15%/18%              | 83%/84%                     | 0.98/0.95                                              | 12%/16%              | 85%/87%                     |
| -FA092                        | 0.92                     | 25.5                        | 38.0    | 0.98/0.93                                              | 15%/18%              | 83%/84%                     | 0.98/0.95                                              | 12%/15%              | 85%/87%                     |
| -FA093                        | 0.93                     | 25.3                        | 38.0    | 0.98/0.93                                              | 15%/18%              | 83%/84%                     | 0.98/0.95                                              | 12%/15%              | 85%/87%                     |
| -FA094                        | 0.94                     | 25.2                        | 38.0    | 0.98/0.93                                              | 15%/18%              | 83%/84%                     | 0.98/0.95                                              | 12%/15%              | 85%/87%                     |
| -FA095                        | 0.95                     | 25.0                        | 38.0    | 0.98/0.93                                              | 15%/18%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -FA096                        | 0.96                     | 24.8                        | 38.0    | 0.98/0.93                                              | 15%/18%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -FA097                        | 0.97                     | 24.7                        | 38.0    | 0.98/0.93                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -FA098                        | 0.98                     | 24.5                        | 38.0    | 0.98/0.93                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -FA099                        | 0.99                     | 24.3                        | 38.0    | 0.98/0.93                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -FA100                        | 1.00                     | 24.2                        | 38.0    | 0.98/0.93                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -FA101                        | 1.01                     | 24.0                        | 38.0    | 0.98/0.93                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -FA102                        | 1.02                     | 23.9                        | 38.0    | 0.98/0.93                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/87%                     |
| -FA103                        | 1.03                     | 23.7                        | 38.0    | 0.98/0.93                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/88%                     |
| -FA104                        | 1.04                     | 23.5                        | 38.0    | 0.98/0.94                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/88%                     |
| -FA105                        | 1.05                     | 23.4                        | 38.0    | 0.98/0.94                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/88%                     |
| -FA106                        | 1.06                     | 23.2                        | 37.7    | 0.98/0.94                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/88%                     |
| -FA107                        | 1.07                     | 23.1                        | 37.4    | 0.98/0.94                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/88%                     |
| -FA108                        | 1.08                     | 22.9                        | 37.0    | 0.98/0.94                                              | 15%/17%              | 83%/84%                     | 0.98/0.96                                              | 12%/15%              | 85%/88%                     |

\* See How to Build a Model Number, K-Case Type page for a sample model number.

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 SPECIFICATION SUBMITTAL

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|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## K-Case Models: “F” Output Range (continued)

## Output Current and Compatible Load Voltage (continued)

| Model Number*<br>LDE14U1UKS/N | Rated<br>Output<br>Current<br>(A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                    | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                    |
|-------------------------------|-----------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|------------------------------------|-----------------------------------------------------------|-----------------------------|------------------------------------|
|                               |                                   | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at 120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at 120 V~/<br>277 V~ |
| -FA109                        | 1.09                              | 22.8                           | 36.7    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA110                        | 1.10                              | 22.6                           | 36.4    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA111                        | 1.11                              | 22.5                           | 36.0    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA112                        | 1.12                              | 22.4                           | 35.7    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA113                        | 1.13                              | 22.2                           | 35.4    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA114                        | 1.14                              | 22.1                           | 35.1    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA115                        | 1.15                              | 21.9                           | 34.8    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA116                        | 1.16                              | 21.8                           | 34.5    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA117                        | 1.17                              | 21.7                           | 34.2    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA118                        | 1.18                              | 21.5                           | 33.9    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA119                        | 1.19                              | 21.4                           | 33.6    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA120                        | 1.20                              | 21.3                           | 33.3    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA121                        | 1.21                              | 21.1                           | 33.1    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA122                        | 1.22                              | 21.0                           | 32.8    | 0.98/0.94                                                 | 15%/17%                     | 83%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA123                        | 1.23                              | 20.9                           | 32.5    | 0.98/0.94                                                 | 14%/17%                     | 82%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA124                        | 1.24                              | 20.8                           | 32.3    | 0.98/0.94                                                 | 14%/17%                     | 82%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA125                        | 1.25                              | 20.6                           | 32.0    | 0.98/0.94                                                 | 14%/17%                     | 82%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA126                        | 1.26                              | 20.5                           | 31.7    | 0.98/0.94                                                 | 14%/17%                     | 82%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA127                        | 1.27                              | 20.4                           | 31.5    | 0.98/0.94                                                 | 14%/17%                     | 82%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA128                        | 1.28                              | 20.3                           | 31.3    | 0.98/0.94                                                 | 14%/17%                     | 82%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA129                        | 1.29                              | 20.2                           | 31.0    | 0.98/0.94                                                 | 14%/17%                     | 82%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 85%/87%                            |
| -FA130                        | 1.30                              | 20.1                           | 30.8    | 0.98/0.94                                                 | 14%/17%                     | 82%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 84%/87%                            |
| -FA131                        | 1.31                              | 19.9                           | 30.5    | 0.98/0.94                                                 | 14%/17%                     | 82%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 84%/87%                            |
| -FA132                        | 1.32                              | 19.8                           | 30.3    | 0.98/0.94                                                 | 14%/17%                     | 82%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 84%/87%                            |
| -FA133                        | 1.33                              | 19.7                           | 30.1    | 0.98/0.94                                                 | 14%/17%                     | 82%/84%                            | 0.98/0.96                                                 | 12%/15%                     | 84%/87%                            |
| -FA134                        | 1.34                              | 19.6                           | 29.9    | 0.98/0.94                                                 | 14%/17%                     | 82%/83%                            | 0.98/0.96                                                 | 12%/15%                     | 84%/87%                            |
| -FA135                        | 1.35                              | 19.5                           | 29.6    | 0.98/0.94                                                 | 14%/17%                     | 82%/83%                            | 0.98/0.96                                                 | 12%/15%                     | 84%/86%                            |
| -FA136                        | 1.36                              | 19.4                           | 29.4    | 0.98/0.94                                                 | 14%/17%                     | 82%/83%                            | 0.98/0.96                                                 | 12%/15%                     | 84%/86%                            |
| -FA137                        | 1.37                              | 19.3                           | 29.2    | 0.98/0.94                                                 | 14%/17%                     | 82%/83%                            | 0.98/0.96                                                 | 12%/15%                     | 84%/86%                            |
| -FA138                        | 1.38                              | 19.2                           | 29.0    | 0.98/0.94                                                 | 14%/17%                     | 82%/83%                            | 0.98/0.96                                                 | 12%/15%                     | 84%/86%                            |
| -FA139                        | 1.39                              | 19.1                           | 28.8    | 0.98/0.94                                                 | 14%/17%                     | 82%/83%                            | 0.98/0.96                                                 | 12%/15%                     | 84%/86%                            |
| -FA140                        | 1.40                              | 19.0                           | 28.6    | 0.98/0.94                                                 | 14%/17%                     | 82%/83%                            | 0.98/0.96                                                 | 12%/15%                     | 84%/86%                            |

\* See [How to Build a Model Number, K-Case Type](#) page for a sample model number.

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| Job Name:   | Model Numbers: |
| Job Number: |                |

## K-Case Models: "G" Output Range

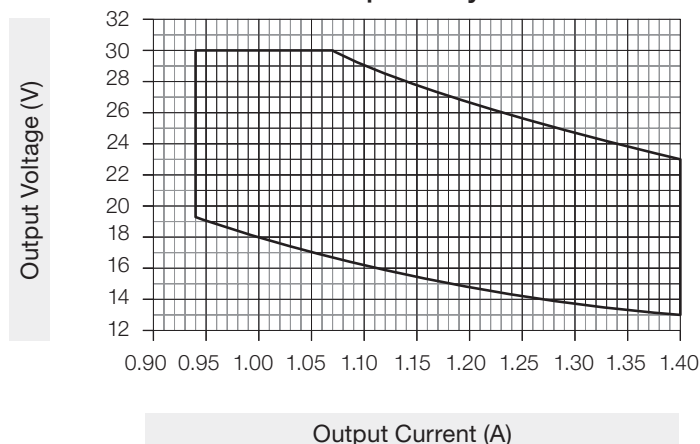
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                                                                                                                 | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 13–30 V $\sim$ | 0.94–1.4 A     | 18.5–32 W    |   | 75 °C                                    |

\* BLK model LDE14U1UKx-GABLK is NOM certified and available for Mexico. "x" in the model number is either "S" (Studded) or "N" (Non-Studded).

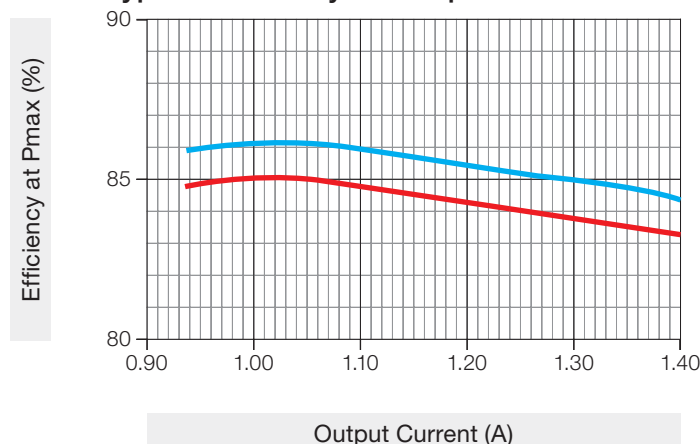
## Typical Performance Specifications

| Parameter         | Value  | Test Conditions                                                                                                                                              |
|-------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.14 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 1.4\text{ A}$ , $V_o = 22.9\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE14U1UKN-GA140 |
| Power Factor      | 0.96   |                                                                                                                                                              |
| THD               | 18%    |                                                                                                                                                              |
| Driver Efficiency | 84%    |                                                                                                                                                              |

Load Compatibility

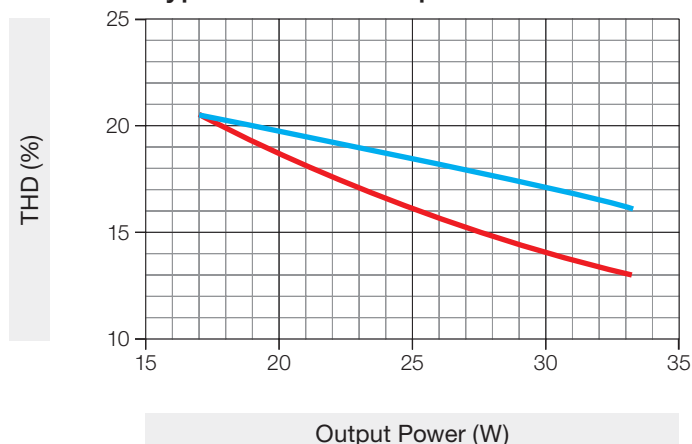


Typical Efficiency vs. Output Current



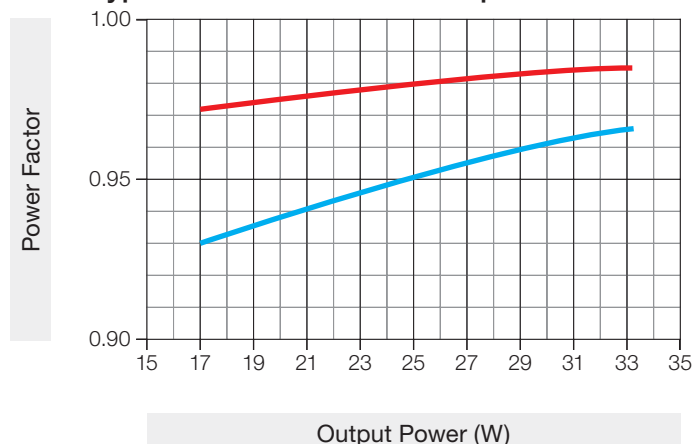
Key: — 120 V $\sim$  — 277 V $\sim$

Typical THD vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

Typical Power Factor vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

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|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |



## K-Case Models: “G” Output Range (continued)

## Output Current and Compatible Load Voltage

| Model Number*<br>LDE14U1UKS/N | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|-------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                               |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -GA094                        | 0.94                     | 19.4                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 81%/82%                     | 0.98/0.96                                              | 18%/18%              | 85%/86%                     |
| -GA095                        | 0.95                     | 19.2                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 81%/81%                     | 0.98/0.96                                              | 18%/18%              | 85%/86%                     |
| -GA096                        | 0.96                     | 19.0                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 81%/81%                     | 0.98/0.96                                              | 18%/18%              | 85%/86%                     |
| -GA097                        | 0.97                     | 18.8                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 81%/81%                     | 0.98/0.96                                              | 18%/18%              | 85%/86%                     |
| -GA098                        | 0.98                     | 18.6                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 81%/81%                     | 0.98/0.96                                              | 18%/17%              | 85%/86%                     |
| -GA099                        | 0.99                     | 18.4                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 18%/17%              | 85%/86%                     |
| -GA100                        | 1.00                     | 18.2                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA101                        | 1.01                     | 18.0                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA102                        | 1.02                     | 17.8                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA103                        | 1.03                     | 17.7                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA104                        | 1.04                     | 17.5                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA105                        | 1.05                     | 17.3                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA106                        | 1.06                     | 17.2                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA107                        | 1.07                     | 17.0                        | 30.0    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA108                        | 1.08                     | 16.9                        | 29.6    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA109                        | 1.09                     | 16.7                        | 29.4    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA110                        | 1.10                     | 16.5                        | 29.1    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA111                        | 1.11                     | 16.4                        | 28.8    | 0.97/0.93                                              | 20%/20%              | 80%/81%                     | 0.98/0.96                                              | 17%/17%              | 85%/86%                     |
| -GA112                        | 1.12                     | 16.3                        | 28.6    | 0.97/0.93                                              | 20%/20%              | 80%/80%                     | 0.98/0.96                                              | 17%/17%              | 84%/86%                     |
| -GA113                        | 1.13                     | 16.1                        | 28.3    | 0.97/0.93                                              | 20%/20%              | 80%/80%                     | 0.98/0.96                                              | 17%/17%              | 84%/86%                     |
| -GA114                        | 1.14                     | 16.0                        | 28.1    | 0.97/0.93                                              | 20%/20%              | 80%/80%                     | 0.98/0.96                                              | 17%/17%              | 84%/86%                     |
| -GA115                        | 1.15                     | 15.8                        | 27.8    | 0.97/0.93                                              | 20%/20%              | 79%/80%                     | 0.98/0.96                                              | 17%/17%              | 84%/86%                     |
| -GA116                        | 1.16                     | 15.7                        | 27.6    | 0.97/0.93                                              | 20%/20%              | 79%/80%                     | 0.98/0.96                                              | 17%/17%              | 84%/86%                     |
| -GA117                        | 1.17                     | 15.6                        | 27.4    | 0.97/0.93                                              | 20%/20%              | 79%/80%                     | 0.98/0.96                                              | 17%/17%              | 84%/86%                     |
| -GA118                        | 1.18                     | 15.4                        | 27.1    | 0.97/0.93                                              | 20%/20%              | 79%/80%                     | 0.98/0.96                                              | 17%/17%              | 84%/86%                     |
| -GA119                        | 1.19                     | 15.3                        | 26.9    | 0.97/0.93                                              | 20%/20%              | 79%/80%                     | 0.98/0.96                                              | 17%/17%              | 84%/86%                     |
| -GA120                        | 1.20                     | 15.2                        | 26.7    | 0.97/0.93                                              | 20%/20%              | 79%/80%                     | 0.98/0.96                                              | 17%/17%              | 84%/86%                     |
| -GA121                        | 1.21                     | 15.0                        | 26.4    | 0.97/0.93                                              | 20%/20%              | 79%/80%                     | 0.98/0.96                                              | 17%/17%              | 84%/85%                     |
| -GA122                        | 1.22                     | 14.9                        | 26.2    | 0.97/0.93                                              | 20%/20%              | 79%/79%                     | 0.98/0.96                                              | 17%/17%              | 84%/85%                     |
| -GA123                        | 1.23                     | 14.8                        | 26.0    | 0.97/0.93                                              | 20%/20%              | 79%/79%                     | 0.98/0.96                                              | 17%/17%              | 84%/85%                     |
| -GA124                        | 1.24                     | 14.7                        | 25.8    | 0.97/0.93                                              | 20%/20%              | 79%/79%                     | 0.98/0.96                                              | 17%/17%              | 84%/85%                     |
| -GA125                        | 1.25                     | 14.6                        | 25.6    | 0.97/0.93                                              | 20%/20%              | 79%/79%                     | 0.98/0.96                                              | 17%/17%              | 84%/85%                     |
| -GA126                        | 1.26                     | 14.4                        | 25.4    | 0.97/0.93                                              | 20%/20%              | 79%/79%                     | 0.98/0.96                                              | 17%/17%              | 84%/85%                     |
| -GA127                        | 1.27                     | 14.3                        | 25.2    | 0.97/0.93                                              | 20%/20%              | 78%/79%                     | 0.98/0.96                                              | 17%/17%              | 84%/85%                     |
| -GA128                        | 1.28                     | 14.2                        | 25.0    | 0.97/0.93                                              | 20%/20%              | 78%/79%                     | 0.98/0.96                                              | 17%/17%              | 84%/85%                     |
| -GA129                        | 1.29                     | 14.1                        | 24.8    | 0.97/0.93                                              | 20%/20%              | 78%/79%                     | 0.98/0.96                                              | 17%/17%              | 84%/85%                     |
| -GA130                        | 1.30                     | 14.0                        | 24.6    | 0.97/0.93                                              | 20%/20%              | 78%/79%                     | 0.98/0.96                                              | 17%/17%              | 84%/85%                     |
| -GA131                        | 1.31                     | 13.9                        | 24.4    | 0.97/0.93                                              | 20%/20%              | 78%/79%                     | 0.98/0.96                                              | 17%/17%              | 84%/85%                     |

\* See How to Build a Model Number, K-Case Type page for a sample model number.

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| Job Name:   | Model Numbers: |
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K-Case Models: “G” Output Range *(continued)*Output Current and Compatible Load Voltage *(continued)*

| Model Number*<br>LDE14U1UKS/N | Rated<br>Output<br>Current<br>(A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                    | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                    |
|-------------------------------|-----------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|------------------------------------|-----------------------------------------------------------|-----------------------------|------------------------------------|
|                               |                                   | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at 120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at 120 V~/<br>277 V~ |
| -GA132                        | 1.32                              | 13.8                           | 24.2    | 0.97/0.93                                                 | 20%/20%                     | 78%/79%                            | 0.98/0.96                                                 | 17%/17%                     | 83%/85%                            |
| -GA133                        | 1.33                              | 13.7                           | 24.1    | 0.97/0.93                                                 | 20%/20%                     | 78%/79%                            | 0.98/0.96                                                 | 17%/17%                     | 83%/85%                            |
| -GA134                        | 1.34                              | 13.6                           | 23.9    | 0.97/0.93                                                 | 20%/20%                     | 78%/79%                            | 0.98/0.96                                                 | 17%/17%                     | 83%/85%                            |
| -GA135                        | 1.35                              | 13.5                           | 23.7    | 0.97/0.93                                                 | 20%/20%                     | 78%/79%                            | 0.98/0.96                                                 | 17%/17%                     | 83%/85%                            |
| -GA136                        | 1.36                              | 13.4                           | 23.5    | 0.97/0.93                                                 | 20%/20%                     | 78%/79%                            | 0.98/0.96                                                 | 17%/17%                     | 83%/85%                            |
| -GA137                        | 1.37                              | 13.3                           | 23.4    | 0.97/0.93                                                 | 20%/20%                     | 78%/79%                            | 0.98/0.96                                                 | 17%/17%                     | 83%/85%                            |
| -GA138                        | 1.38                              | 13.2                           | 23.2    | 0.97/0.93                                                 | 20%/20%                     | 78%/79%                            | 0.98/0.96                                                 | 17%/17%                     | 83%/84%                            |
| -GA139                        | 1.39                              | 13.1                           | 23.0    | 0.97/0.93                                                 | 20%/20%                     | 78%/79%                            | 0.98/0.96                                                 | 17%/17%                     | 83%/84%                            |
| -GA140                        | 1.40                              | 13.0                           | 22.9    | 0.97/0.93                                                 | 20%/20%                     | 78%/79%                            | 0.98/0.96                                                 | 17%/17%                     | 83%/84%                            |

\* See **How to Build a Model Number, K-Case Type** page for a sample model number.

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| Job Name:   | Model Numbers: |
| Job Number: |                |



## K-Case Models: "H" Output Range

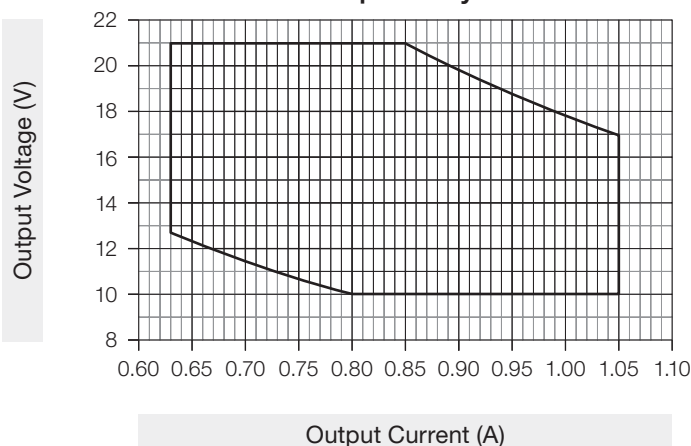
| Driver Type                       | Output Voltage | Output Current | Output Power | Standards Recognition                                                             | Maximum Rated Temp. @ $t_c$ for Warranty |
|-----------------------------------|----------------|----------------|--------------|-----------------------------------------------------------------------------------|------------------------------------------|
| Constant Current Driver (Class 2) | 10–21 V $\sim$ | 0.63–1.05 A    | 8–18 W       |  | 75 °C                                    |

\* BLK model LDE14U1UKx-HABLK is NOM certified and available for Mexico. "x" in the model number is either "S" (Studded) or "N" (Non-Studded).

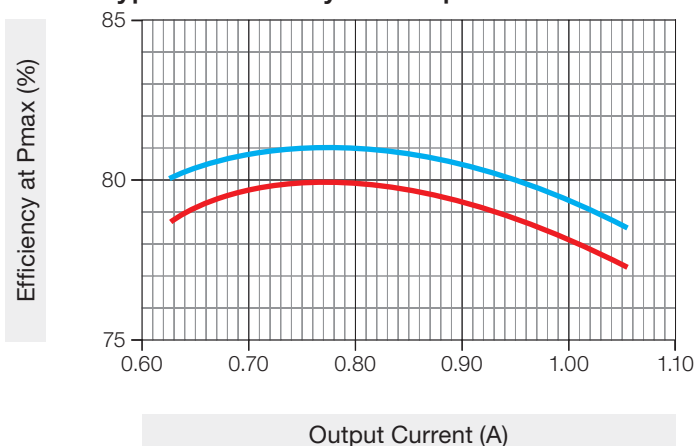
## Typical Performance Specifications

| Parameter         | Value  | Test Conditions                                                                                                                                             |
|-------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input Current     | 0.09 A | $V_i = 277\text{ V}\sim$ , $t_a = 25\text{ }^\circ\text{C}$ , $I_o = 1.05\text{ A}$ , $V_o = 17\text{ V}\sim$ ,<br>Maximum Light Output<br>LDE14U1UKN-HA105 |
| Power Factor      | 0.92   |                                                                                                                                                             |
| THD               | 17%    |                                                                                                                                                             |
| Driver Efficiency | 79%    |                                                                                                                                                             |

Load Compatibility

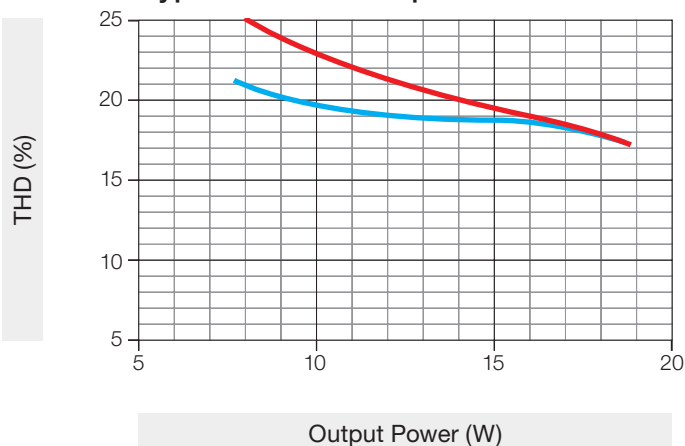


Typical Efficiency vs. Output Current



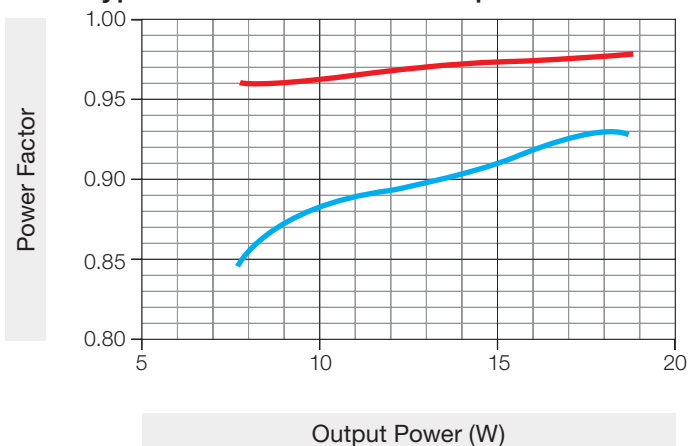
Key: — 120 V $\sim$  — 277 V $\sim$

Typical THD vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

Typical Power Factor vs. Output Power



Key: — 120 V $\sim$  — 277 V $\sim$

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Job Name:

Model Numbers:

Job Number:

## K-Case Models: “H” Output Range (continued)

## Output Current and Compatible Load Voltage

| Model Number*<br>LDE14U1UKS/N | Rated<br>Output<br>Current<br>(A) | Compatible Load<br>Voltage (V) |         | Typical Performance at Minimum<br>Compatible Load Voltage |                             |                                    | Typical Performance at Maximum<br>Compatible Load Voltage |                             |                                    |
|-------------------------------|-----------------------------------|--------------------------------|---------|-----------------------------------------------------------|-----------------------------|------------------------------------|-----------------------------------------------------------|-----------------------------|------------------------------------|
|                               |                                   | Minimum                        | Maximum | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at 120 V~/<br>277 V~ | Power<br>Factor at<br>120 V~/<br>277 V~                   | THD at<br>120 V~/<br>277 V~ | Efficiency<br>at 120 V~/<br>277 V~ |
| -HA063                        | 0.63                              | 12.7                           | 21.0    | 0.96/0.85                                                 | 25%/21%                     | 71%/72%                            | 0.97/0.90                                                 | 21%/19%                     | 79%/80%                            |
| -HA064                        | 0.64                              | 12.5                           | 21.0    | 0.96/0.85                                                 | 25%/21%                     | 71%/72%                            | 0.97/0.90                                                 | 21%/19%                     | 79%/80%                            |
| -HA065                        | 0.65                              | 12.3                           | 21.0    | 0.96/0.85                                                 | 25%/21%                     | 71%/72%                            | 0.97/0.90                                                 | 20%/19%                     | 79%/80%                            |
| -HA066                        | 0.66                              | 12.1                           | 21.0    | 0.96/0.85                                                 | 25%/21%                     | 71%/71%                            | 0.97/0.90                                                 | 20%/19%                     | 79%/80%                            |
| -HA067                        | 0.67                              | 11.9                           | 21.0    | 0.96/0.85                                                 | 25%/21%                     | 71%/71%                            | 0.97/0.90                                                 | 20%/19%                     | 79%/81%                            |
| -HA068                        | 0.68                              | 11.8                           | 21.0    | 0.96/0.85                                                 | 25%/21%                     | 70%/71%                            | 0.97/0.90                                                 | 20%/19%                     | 79%/81%                            |
| -HA069                        | 0.69                              | 11.6                           | 21.0    | 0.96/0.85                                                 | 25%/21%                     | 70%/71%                            | 0.97/0.91                                                 | 20%/19%                     | 79%/81%                            |
| -HA070                        | 0.70                              | 11.4                           | 21.0    | 0.96/0.85                                                 | 25%/21%                     | 70%/71%                            | 0.97/0.91                                                 | 20%/19%                     | 80%/81%                            |
| -HA071                        | 0.71                              | 11.3                           | 21.0    | 0.96/0.85                                                 | 25%/21%                     | 70%/71%                            | 0.97/0.91                                                 | 20%/19%                     | 80%/81%                            |
| -HA072                        | 0.72                              | 11.1                           | 21.0    | 0.96/0.85                                                 | 25%/21%                     | 70%/71%                            | 0.97/0.91                                                 | 20%/19%                     | 80%/81%                            |
| -HA073                        | 0.73                              | 11.0                           | 21.0    | 0.96/0.85                                                 | 25%/21%                     | 70%/70%                            | 0.97/0.92                                                 | 19%/19%                     | 80%/81%                            |
| -HA074                        | 0.74                              | 10.8                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 70%/70%                            | 0.97/0.92                                                 | 19%/19%                     | 80%/81%                            |
| -HA075                        | 0.75                              | 10.7                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 70%/70%                            | 0.97/0.92                                                 | 19%/19%                     | 80%/81%                            |
| -HA076                        | 0.76                              | 10.5                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 70%/70%                            | 0.97/0.92                                                 | 19%/18%                     | 80%/81%                            |
| -HA077                        | 0.77                              | 10.4                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 70%/70%                            | 0.97/0.92                                                 | 19%/18%                     | 80%/81%                            |
| -HA078                        | 0.78                              | 10.3                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 69%/70%                            | 0.97/0.92                                                 | 19%/18%                     | 80%/81%                            |
| -HA079                        | 0.79                              | 10.1                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 69%/70%                            | 0.97/0.92                                                 | 19%/18%                     | 80%/81%                            |
| -HA080                        | 0.80                              | 10.0                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 69%/70%                            | 0.98/0.92                                                 | 19%/18%                     | 80%/81%                            |
| -HA081                        | 0.81                              | 10.0                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 80%/81%                            |
| -HA082                        | 0.82                              | 10.0                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 80%/81%                            |
| -HA083                        | 0.83                              | 10.0                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 80%/81%                            |
| -HA084                        | 0.84                              | 10.0                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 80%/81%                            |
| -HA085                        | 0.85                              | 10.0                           | 21.0    | 0.96/0.86                                                 | 25%/21%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 80%/81%                            |
| -HA086                        | 0.86                              | 10.0                           | 20.9    | 0.96/0.87                                                 | 24%/21%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 80%/81%                            |
| -HA087                        | 0.87                              | 10.0                           | 20.7    | 0.96/0.87                                                 | 24%/20%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 80%/81%                            |
| -HA088                        | 0.88                              | 10.0                           | 20.5    | 0.96/0.87                                                 | 24%/20%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 80%/81%                            |
| -HA089                        | 0.89                              | 10.0                           | 20.2    | 0.96/0.87                                                 | 24%/20%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 79%/81%                            |
| -HA090                        | 0.90                              | 10.0                           | 20.0    | 0.96/0.87                                                 | 24%/20%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 79%/80%                            |
| -HA091                        | 0.91                              | 10.0                           | 19.8    | 0.96/0.87                                                 | 24%/20%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 79%/80%                            |
| -HA092                        | 0.92                              | 10.0                           | 19.6    | 0.96/0.87                                                 | 24%/20%                     | 69%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 79%/80%                            |
| -HA093                        | 0.93                              | 10.0                           | 19.4    | 0.96/0.87                                                 | 24%/20%                     | 70%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 79%/80%                            |
| -HA094                        | 0.94                              | 10.0                           | 19.1    | 0.96/0.88                                                 | 24%/20%                     | 70%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 79%/80%                            |
| -HA095                        | 0.95                              | 10.0                           | 18.9    | 0.96/0.88                                                 | 23%/20%                     | 70%/70%                            | 0.98/0.93                                                 | 18%/18%                     | 79%/80%                            |
| -HA096                        | 0.96                              | 10.0                           | 18.8    | 0.96/0.88                                                 | 23%/20%                     | 70%/71%                            | 0.98/0.93                                                 | 18%/18%                     | 79%/80%                            |
| -HA097                        | 0.97                              | 10.0                           | 18.6    | 0.96/0.88                                                 | 23%/20%                     | 70%/71%                            | 0.98/0.93                                                 | 18%/18%                     | 79%/80%                            |
| -HA098                        | 0.98                              | 10.0                           | 18.4    | 0.96/0.88                                                 | 23%/20%                     | 70%/71%                            | 0.98/0.93                                                 | 18%/18%                     | 79%/80%                            |
| -HA099                        | 0.99                              | 10.0                           | 18.2    | 0.96/0.88                                                 | 23%/20%                     | 70%/71%                            | 0.98/0.93                                                 | 18%/18%                     | 78%/80%                            |
| -HA100                        | 1.00                              | 10.0                           | 18.0    | 0.96/0.88                                                 | 23%/19%                     | 70%/71%                            | 0.98/0.93                                                 | 18%/18%                     | 78%/80%                            |

\* See How to Build a Model Number, K-Case Type page for a sample model number.

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| Job Name:   | Model Numbers: |
| Job Number: |                |

K-Case Models: “H” Output Range *(continued)*

Output Current and Compatible Load Voltage *(continued)*

| Model Number*<br>LDE14U1UKS/N | Rated Output Current (A) | Compatible Load Voltage (V) |         | Typical Performance at Minimum Compatible Load Voltage |                      |                             | Typical Performance at Maximum Compatible Load Voltage |                      |                             |
|-------------------------------|--------------------------|-----------------------------|---------|--------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------|----------------------|-----------------------------|
|                               |                          | Minimum                     | Maximum | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ | Power Factor at 120 V~/277 V~                          | THD at 120 V~/277 V~ | Efficiency at 120 V~/277 V~ |
| -HA101                        | 1.01                     | 10.0                        | 17.8    | 0.96/0.88                                              | 23%/19%              | 70%/71%                     | 0.98/0.93                                              | 18%/18%              | 78%/79%                     |
| -HA102                        | 1.02                     | 10.0                        | 17.6    | 0.96/0.88                                              | 23%/19%              | 70%/71%                     | 0.98/0.93                                              | 18%/18%              | 78%/79%                     |
| -HA103                        | 1.03                     | 10.0                        | 17.5    | 0.97/0.89                                              | 23%/19%              | 70%/71%                     | 0.98/0.93                                              | 18%/18%              | 78%/79%                     |
| -HA104                        | 1.04                     | 10.0                        | 17.3    | 0.97/0.89                                              | 23%/19%              | 70%/71%                     | 0.98/0.93                                              | 18%/18%              | 78%/79%                     |
| -HA105                        | 1.05                     | 10.0                        | 17.1    | 0.97/0.89                                              | 23%/19%              | 70%/71%                     | 0.98/0.93                                              | 18%/18%              | 77%/79%                     |

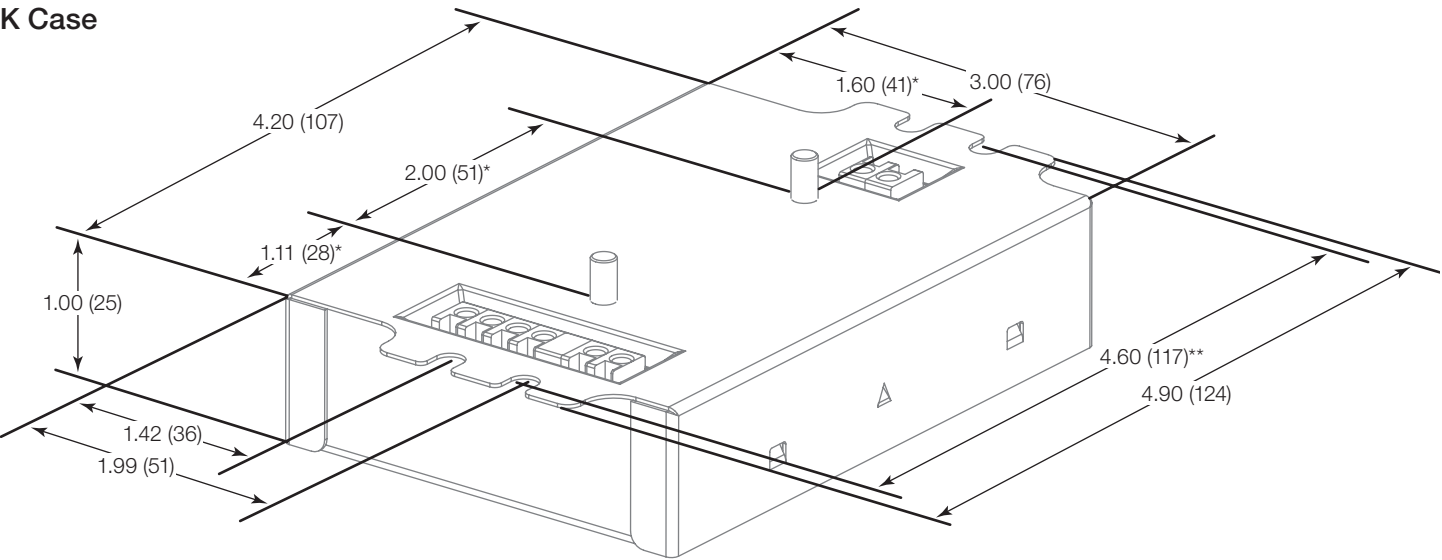
\* See **How to Build a Model Number, K-Case Type** page for a sample model number.

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|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

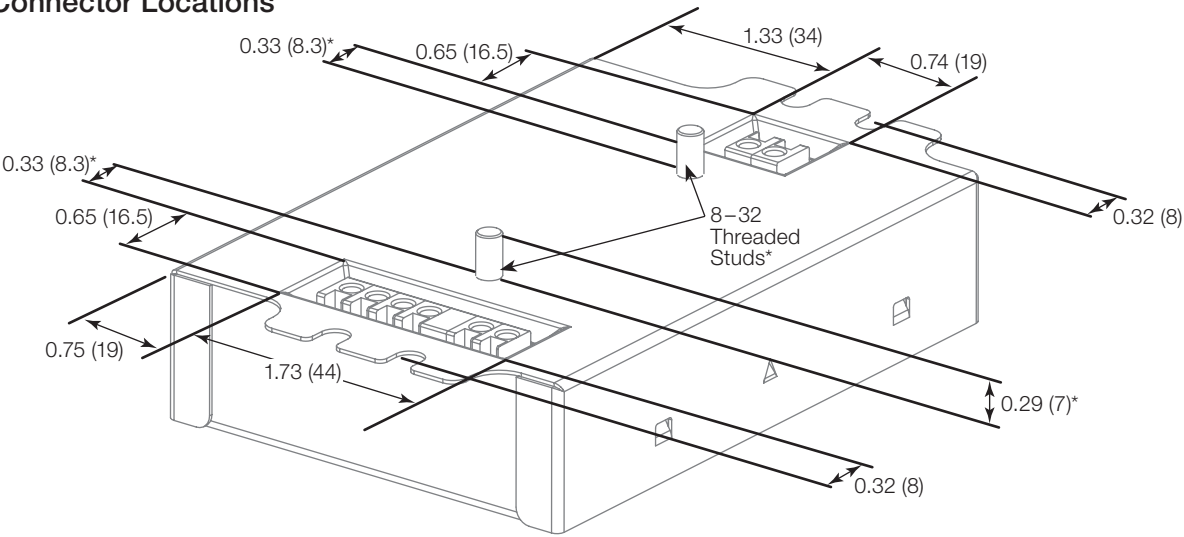
Dimensions

All measurements shown as: in (mm)

K Case



K Case Connector Locations



\* Applies to studded K case only  
\*\* Mounting center

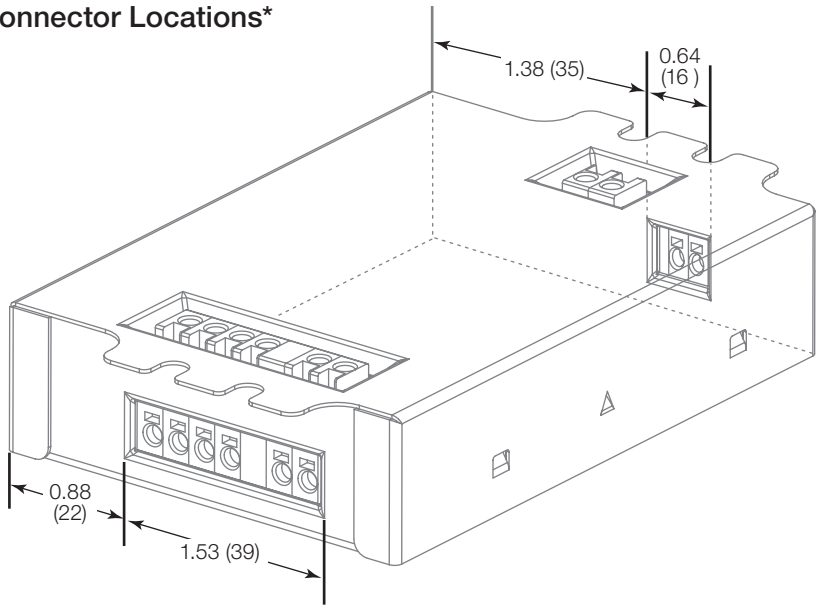
continued on next page...

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|--------------------------------|----------------|------|
| LUTRON SPECIFICATION SUBMITTAL |                | Page |
| Job Name:                      | Model Numbers: |      |
| Job Number:                    |                |      |

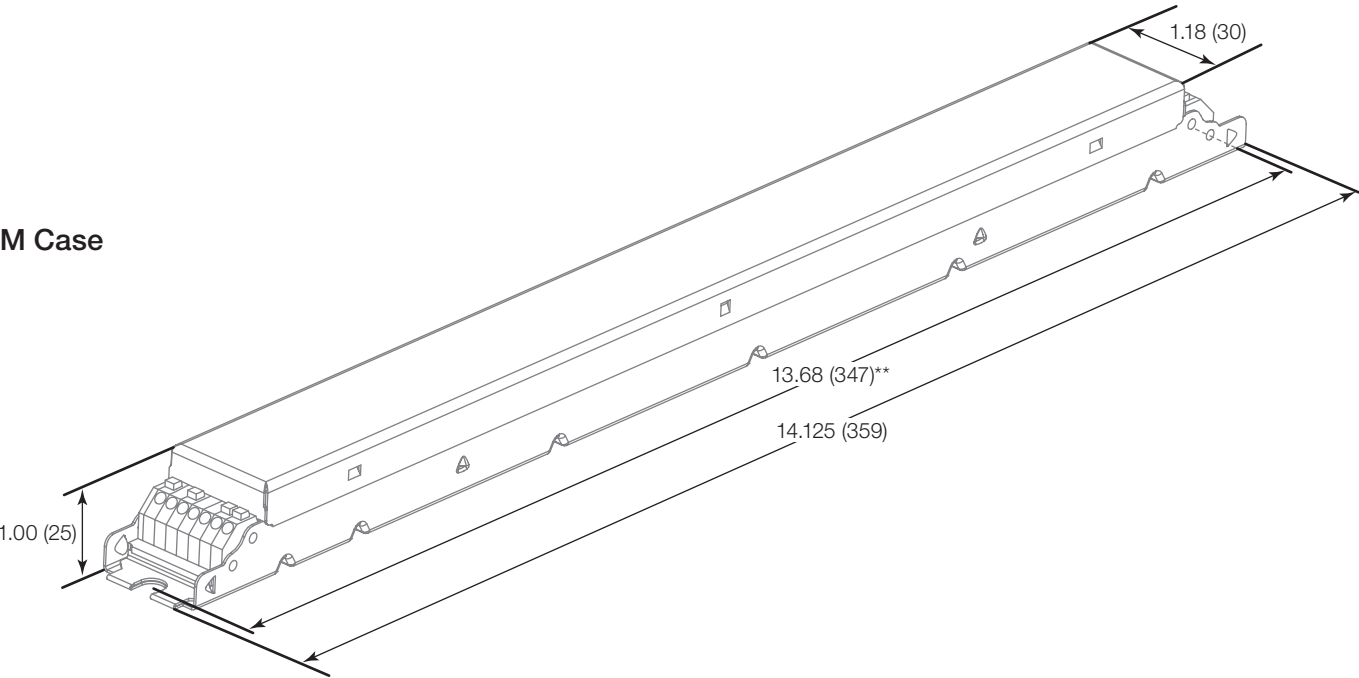
Dimensions (continued)

All measurements shown as: in (mm)

K Case Side Entry Connector Locations\*



M Case

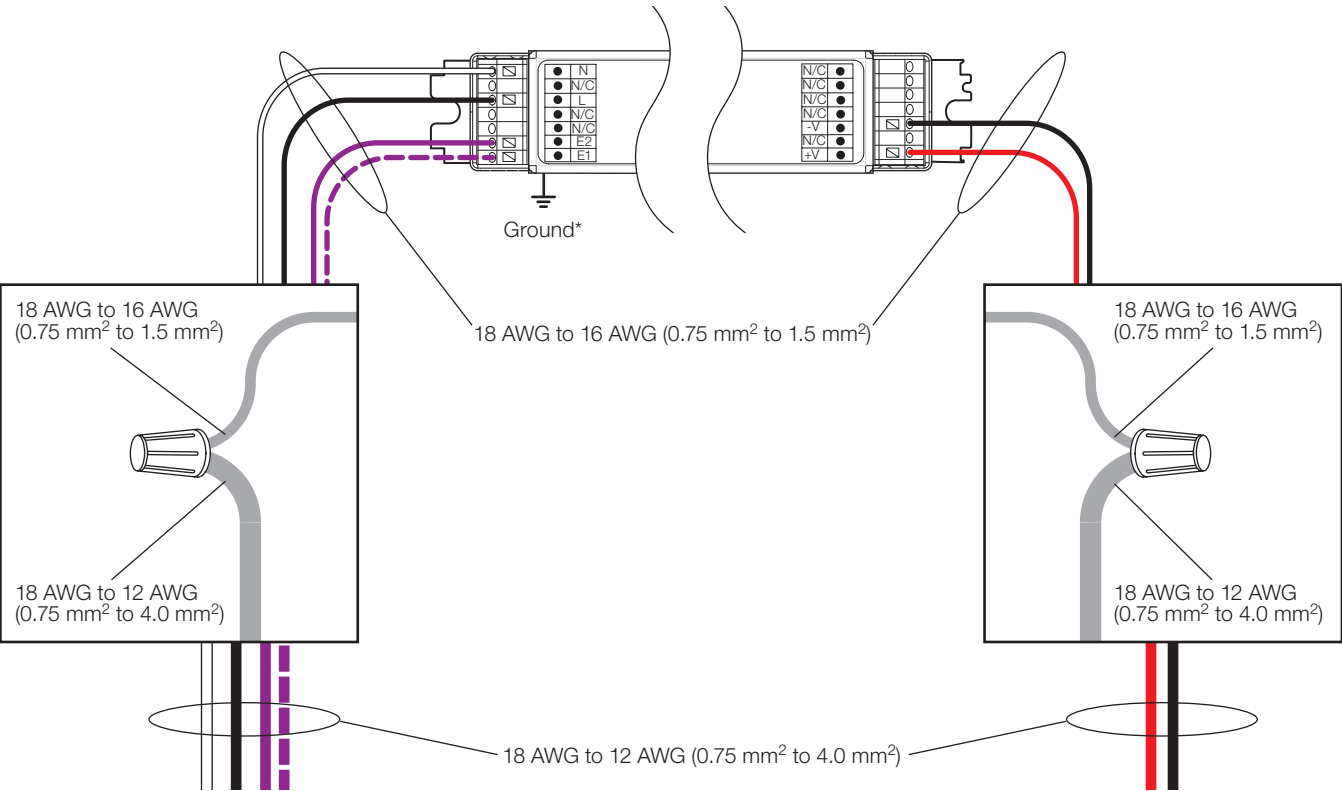


\* Applies to non-studded K case only  
\*\* Mounting center

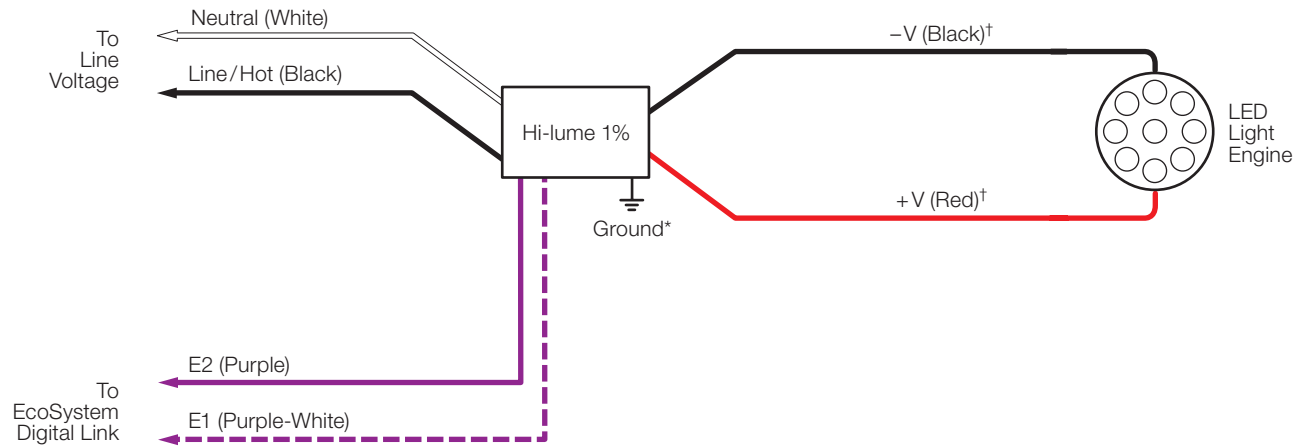
|             |                |
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| Job Name:   | Model Numbers: |
| Job Number: |                |

Terminal Wiring Gauges

Wire colors shown correspond to terminal blocks on driver.



Wiring for EcoSystem Digital Control\*\*



\* Fixture and driver case must be grounded in accordance with local and national electrical codes. Ground connection to driver case can be accomplished through ground terminal, and/or grounding the case. Ground connection to M case driver (shown) requires connection to stud in fixture.

\*\* Refer to Lutron Application note #142 (P/N 048162), "EcoSystem Bus Class 1 and Class 2 listing" at [www.lutron.com](http://www.lutron.com) for more information on wiring options.

† For maximum driver-to-LED light engine wire length, see charts in the **Driver Wiring and Mounting** section on page 2.

## Compatible Controls: Lutron EcoSystem Digital Controls

Guaranteed performance specifications with the controls listed in the chart below.

For assistance selecting controls, contact our LED Center of Excellence at **1.877.346.5338** or **LEDs@lutron.com**

| Lutron EcoSystem<br>Compatible Controls      | Part Number                                                                               | Drivers per Control               |                                  |                                   | Measured Light<br>Output Range |
|----------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------------------------------|
|                                              | 120 V~/277 V~                                                                             | EcoSystem<br>Loops per<br>Control | Drivers per<br>EcoSystem<br>Loop | Maximum<br>Drivers per<br>Control |                                |
| PowPak Dimming Modules                       | RMJS-ECO32-DV-B                                                                           | 1                                 | 32                               | 32                                | 100%-1%                        |
|                                              | FCJS-ECO <sup>1,2</sup>                                                                   | 1                                 | 3                                | 3                                 | 100%-1%                        |
| Energi Savr Node                             | QSN-1ECO-S                                                                                | 1                                 | 64                               | 64                                | 100%-1%                        |
|                                              | QSN-2ECO-S                                                                                | 2                                 | 64                               | 128                               |                                |
| GRAFIK Eye QS /<br>HomeWorks QS control unit | QSGRJ-_E (wireless)<br>QSGR-_E                                                            | 1                                 | 64                               | 64                                | 100%-1%                        |
| myRoom plus power module                     | LQSE-2ECO-D                                                                               | 2                                 | 64                               | 128                               | 100%-1%                        |
| Athena modules                               | QSN-1ECO-S<br>UQSN-1ECO-S                                                                 | 1                                 | 64                               | 64                                | 100%-1%                        |
|                                              | QSN-2ECO-S<br>UQSN-2ECO-S<br>QSNE-2ECO-D<br>QSN-2ECO-120-D<br>QSN2-2ECO-S<br>UQSN2-2ECO-S | 2                                 | 64                               | 128                               | 100%-1%                        |

<sup>1</sup> All devices connected to one FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command. For more detail on adjusting low-end light level refer to Application Note # 556 (P/N 048556) at [www.lutron.com](http://www.lutron.com).

<sup>2</sup> For the Line/Hot (L/H) terminal on the driver, it is preferred not to use the switched hot (red) wire from the control but rather the hot wire directly from the power source.

|             |                |
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| Job Name:   | Model Numbers: |
| Job Number: |                |



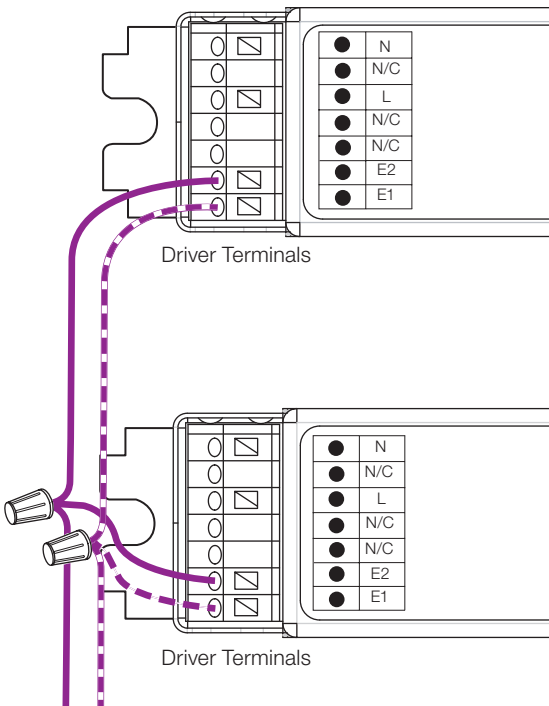
EcoSystem Wiring

EcoSystem Digital Link Overview

- The EcoSystem Digital Link wiring (E1 and E2) connects the digital drivers together to form a lighting control system.
- Sensors do not connect directly to Hi-lume 1% EcoSystem LED drivers. Sensors are integrated through the EcoSystem controllers.
- E1 and E2 (EcoSystem digital link wires) are polarity-insensitive and can be wired in any topology (e.g., T-tap and daisy-chain).
- Power is supplied to the EcoSystem Digital Link from the control system.

EcoSystem Digital Link Wiring

- EcoSystem Digital Link terminals accept only one 18 AWG to 16 AWG (0.75 mm<sup>2</sup> to 1.5 mm<sup>2</sup>) solid copper wire per terminal.
- Make sure that the supply breaker to the drivers and EcoSystem Digital Link Supply is OFF when wiring.
- Connect the two conductors to the two driver terminals E1 and E2 as shown.
- Using two different colors for E1 and E2 will reduce confusion when wiring several drivers together.
- The EcoSystem Digital Link may be wired Class 1 or Class 2. Consult applicable electrical codes for proper wiring practices.
- For emergency wiring, please refer to Lutron Application Note #106 (P/N 048106) at [www.lutron.com](http://www.lutron.com).



To the EcoSystem Digital Link Supply and additional drivers and/or ballasts

Notes

- The EcoSystem Digital Link Supply does not have to be located at the end of the Digital Link.
- EcoSystem Digital Link length is limited by the wire gauge used for E1 and E2 as follows:

| Wire Gauge | Digital Link Length (max) |
|------------|---------------------------|
| 12 AWG*    | 2200 ft                   |
| 14 AWG*    | 1400 ft                   |
| 16 AWG     | 900 ft                    |
| 18 AWG     | 550 ft                    |

| Wire Size             | Digital Link Length (max) |
|-----------------------|---------------------------|
| 4.0 mm <sup>2</sup> * | 828 m                     |
| 2.5 mm <sup>2</sup> * | 517 m                     |
| 1.5 mm <sup>2</sup>   | 310 m                     |
| 1.0 mm <sup>2</sup>   | 207 m                     |
| 0.75 mm <sup>2</sup>  | 155 m                     |

\* Terminal blocks on the drivers accept only solid 18 AWG to 16 AWG (0.75 mm<sup>2</sup> to 1.5 mm<sup>2</sup>) wire. To use wire gauges larger than the terminal blocks' rated gauge of 16 AWG (1.5 mm<sup>2</sup>) refer to the **Terminal Wiring Gauges** diagram. Connect up to 3 ft (1.0 m) of 18 AWG to 16 AWG (0.75 mm<sup>2</sup> to 1.5 mm<sup>2</sup>) wire to the LED driver terminal blocks, then connect 12 AWG or 14 AWG (4.0 mm<sup>2</sup> or 2.5 mm<sup>2</sup>) up to the length allowed in the above table.

|             |                |
|-------------|----------------|
| Job Name:   | Model Numbers: |
| Job Number: |                |

## Service

### Warranty

For warranty information, please visit  
[www.lutron.com/driverwarranty](http://www.lutron.com/driverwarranty)

### Replacement Parts

When ordering Lutron replacement parts, please provide the full model number. Consult Lutron if you have any questions.

### Further Information

For further information, please visit us at  
[www.lutron.com/hilume1softbled](http://www.lutron.com/hilume1softbled) or contact our LED Control Center of Excellence at 1.877.346.5338 or [LEDs@lutron.com](mailto:LEDs@lutron.com)

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| <b>Job Name:</b>   | <b>Model Numbers:</b> |
| <b>Job Number:</b> |                       |