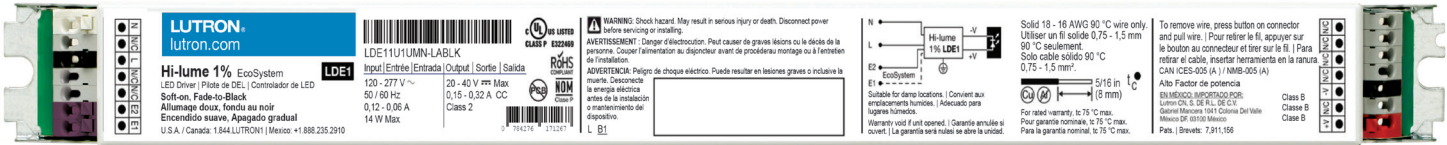


How to Build a Model Number, M-Case Type: Hi-lume 1% EcoSystem (up to 75 W) LED Driver with Soft-on, Fade-to-Black



M-case type

L D E 1 U 1 U M N - 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^{***}, 5–10 W
- M: 0.25–0.50 A, 20.0–40.0 V^{***}, 6.5–14 W
- N: 0.35–0.75 A, 20.0–40.0 V^{***}, 10–20 W
- B: 0.50–1.25 A, 20.0–40.0 V^{***}, 15–35 W
- C: 0.88–1.75 A, 20.0–40.0 V^{***}, 25–50 W
- D: 1.25–2.10 A, 20.0–40.0 V^{***}, 35–75 W
- J: 0.15–0.30 A, 30.0–50.0 V^{***}, 6–12 W
- K: 0.24–0.50 A, 30.0–50.0 V^{***}, 9–20 W
- T: 0.40–0.83 A, 30.0–50.0 V^{***}, 15–35 W
- U: 0.70–1.33 A, 30.0–50.0 V^{***}, 25–50 W
- V: 1.00–1.88 A, 30.0–50.0 V^{***}, 40–75 W

Example: LDE13U1UMN-BA070

- 0.70 A
- 15–28 W^{**}
- 21.5–40.0 V[†] 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

Current Level (for Constant-Current)

- 015 = 0.15 A
- 210 = 2.10 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.

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:	
<input type="text"/>	<input type="text"/>	<input type="text"/>
Job Number:	<input type="text"/>	<input type="text"/>

M-Case Models: "L" Output Range

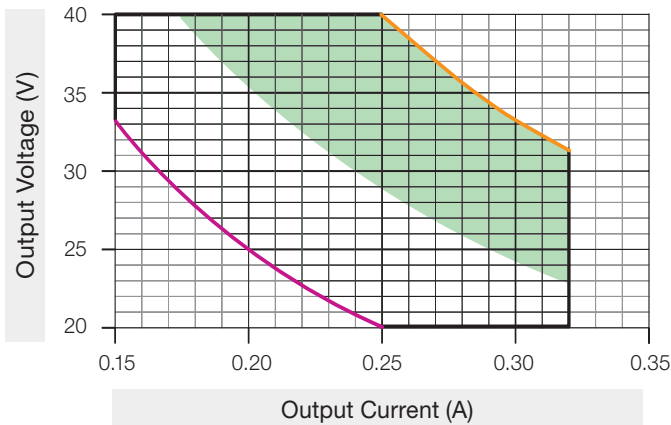
Driver Type	Output Voltage	Output Current	Output Power	Standards Recognition	Maximum Rated Temp. @ t _c for Warranty
Constant Current Driver (Class 2)	20–40 V $\overline{=}$	0.15–0.32 A	5–10 W	 	75 °C

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

Typical Performance Specifications:

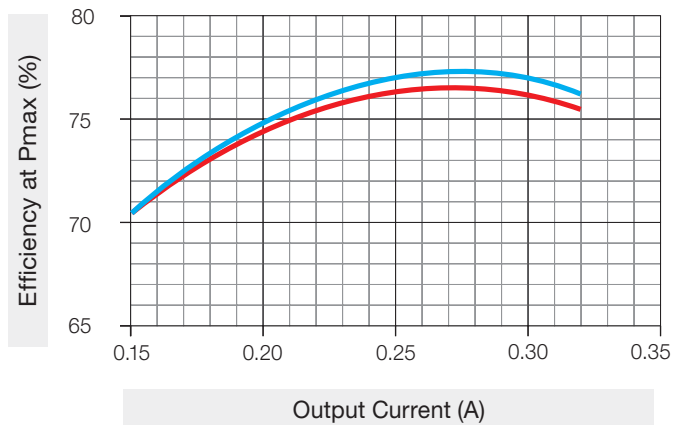
Parameter	Value	Test Conditions
Input Current	0.05 A	V _i = 277 V $\overline{\sim}$, t _a = 25 °C, I _o = 0.25 A, V _o = 40 V $\overline{=}$, Maximum Light Output LDE11U1UMN-LA025
Power Factor	0.93	
THD	18%	
Driver Efficiency	78%	

Load Compatibility



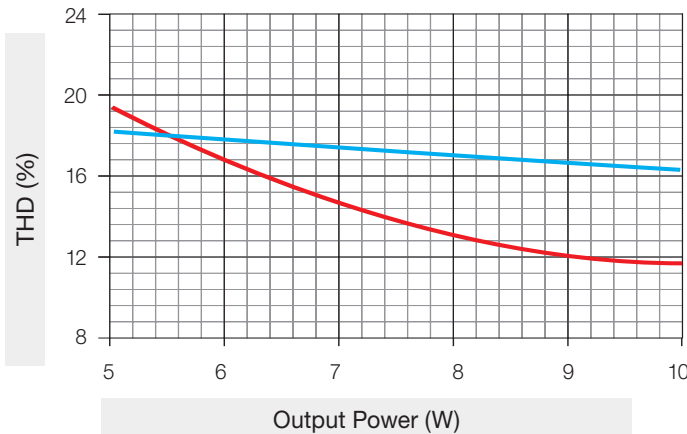
Key:
■ Shaded area meets DLC Version 2.1 (areas outside of shaded areas may not meet THD or PF requirements).
— Constant 5 W output — Constant 10 W output

Typical Efficiency vs. Output Current



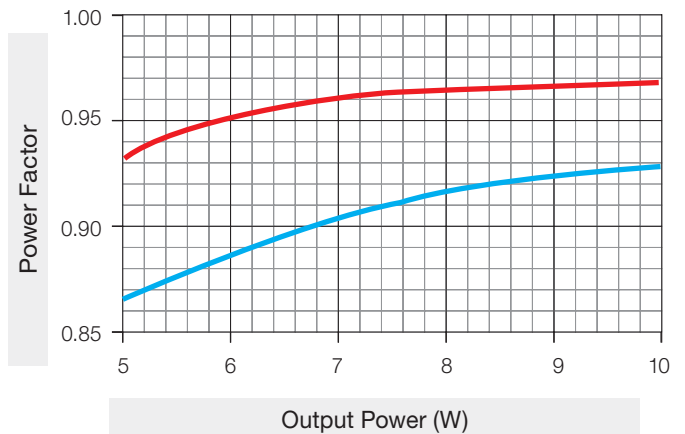
Key: — 120 V $\overline{\sim}$ — 277 V $\overline{\sim}$

Typical THD vs. Output Power



Key: — 120 V $\overline{\sim}$ — 277 V $\overline{\sim}$



Typical Power Factor vs. Output Power



Key: — 120 V $\overline{\sim}$ — 277 V $\overline{\sim}$

Job Name: <input style="width: 90%; height: 20px;" type="text"/>	Model Numbers: <input style="width: 95%; height: 20px;" type="text"/>	
Job Number: <input style="width: 80%; height: 20px;" type="text"/>	<input style="width: 95%; height: 20px;" type="text"/>	<input style="width: 95%; height: 20px;" type="text"/>

M-Case Models: "C" Output Range

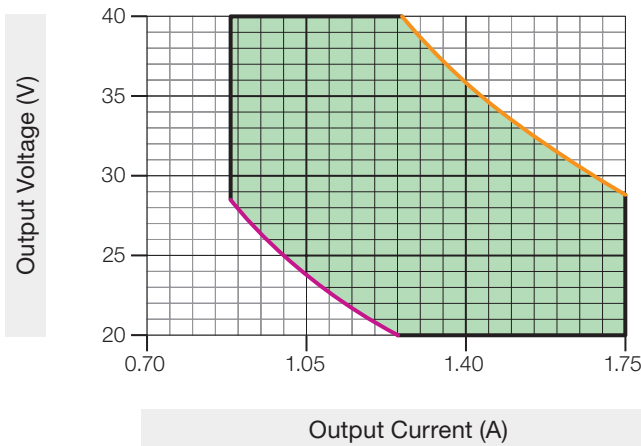
Driver Type	Output Voltage	Output Current	Output Power	Standards Recognition	Maximum Rated Temp. @ t _c for Warranty
Constant Current Driver (Class 2)	20–40 V $\overline{\sim}$	0.88–1.75 A	25–50 W	 	75 °C

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

Typical Performance Specifications

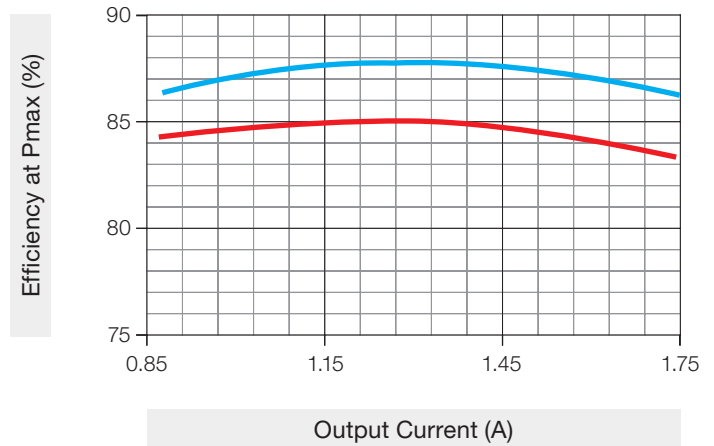
Parameter	Value	Test Conditions
Input Current	0.21 A	V _i = 277 V $\overline{\sim}$, t _a = 25 °C, I _o = 1.25 A, V _o = 40 V $\overline{\sim}$, Maximum Light Output LDE15U1UMN-CA125
Power Factor	0.97	
THD	13%	
Driver Efficiency	88%	

Load Compatibility



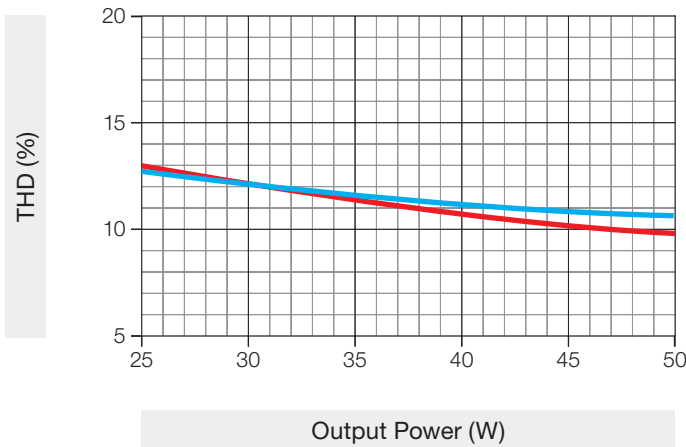
Key:
 Shaded area meets DLC Version 2.1 (areas outside of shaded areas may not meet THD or PF requirements).
 Constant 25 W output Constant 50 W output

Typical Efficiency vs. Output Current



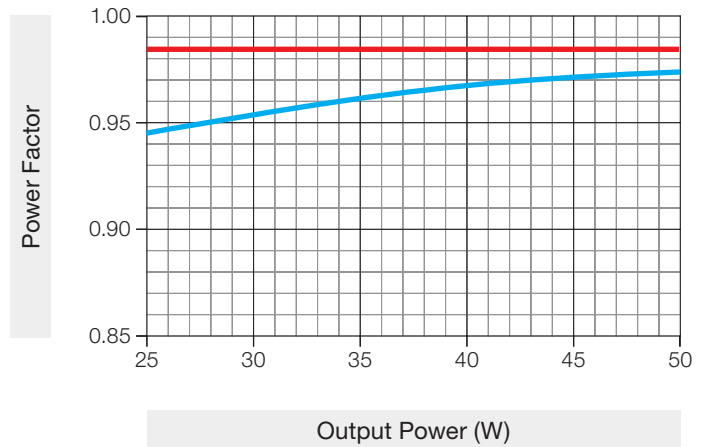
Key: 120 V $\overline{\sim}$ 277 V $\overline{\sim}$

Typical THD vs. Output Power



Key: 120 V $\overline{\sim}$ 277 V $\overline{\sim}$

Typical Power Factor vs. Output Power



Key: 120 V $\overline{\sim}$ 277 V $\overline{\sim}$

Job Name: <input style="width: 90%;" type="text"/>	Model Numbers: <input style="width: 95%;" type="text"/>	
Job Number: <input style="width: 80%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>

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

Model number* 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~
-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: <input style="width: 90%; height: 20px;" type="text"/>	Model Numbers: <input style="width: 60%; height: 20px;" type="text"/> <input style="width: 35%; height: 20px;" type="text"/>	
Job Number: <input style="width: 150px; height: 20px;" type="text"/>	<input style="width: 300px; height: 20px;" type="text"/>	<input style="width: 300px; height: 20px;" type="text"/>

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

Model number* 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~
-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: <input style="width: 90%; height: 20px; border: none; border-bottom: 1px solid black;" type="text"/>	Model Numbers: <input style="width: 95%; height: 20px; border: none; border-bottom: 1px solid black;" type="text"/>	
Job Number: <input style="width: 80%; height: 20px; border: none; border-bottom: 1px solid black;" type="text"/>	<input style="width: 95%; height: 20px; border: none; border-bottom: 1px solid black;" type="text"/>	<input style="width: 95%; height: 20px; border: none; border-bottom: 1px solid black;" type="text"/>

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

Model number* 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~
-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: <input style="width: 90%; height: 20px;" type="text"/>	Model Numbers: <input style="width: 95%; height: 20px;" type="text"/>	
Job Number: <input style="width: 80%; height: 20px;" type="text"/>	<input style="width: 95%; height: 20px;" type="text"/>	<input style="width: 95%; height: 20px;" type="text"/>