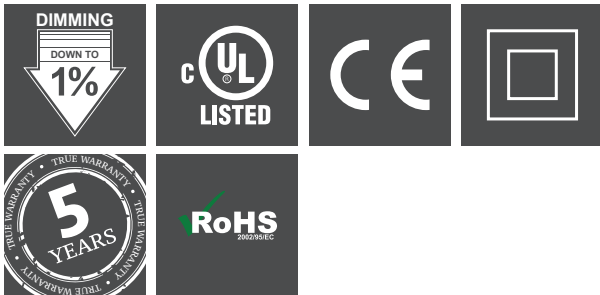




XEL-045REU Commercial Series

10-45W LED Driver Family
0-10V, 1% Dimming



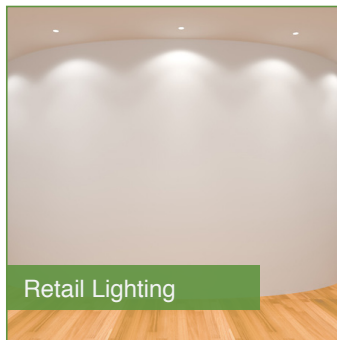
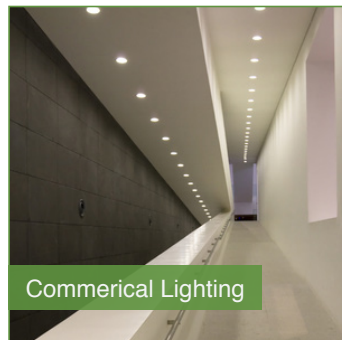
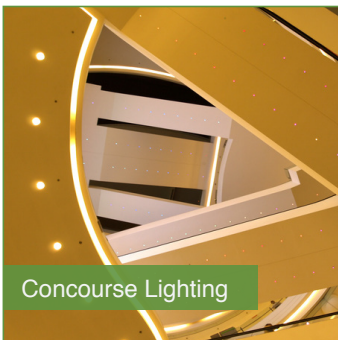
Variants available:

- XEL-045RBU Side Exit Wires
- XEL-045RDU Rugged ^(TM) Bottom Exit Wires
- XEL-045RAU Rugged ^(TM) Side Exit Wires

- ✔ **Ideal for Downlight & Recessed Lighting**
- ✔ **Universal AC input (108~305Vac)**
- ✔ **1% Deep Dimming (0-10V)**
- ✔ **DLC (DesignLight Consortium®) compliant**
- ✔ Turn on/off in less than 750 milliseconds
- ✔ Built-in Commercial grade Surge protection
- ✔ Class A Noise Rating
- ✔ Integrated over voltage, over current, short circuit and temperature protection
- ✔ Full power operation between -20°C to +55°C ambient
- ✔ 5 year warranty
- ✔ Class 2 power supply
- ✔ Double-insulated power supply between input and output (class II)
- ✔ Complies to FCC CFR Title 47 Part 15

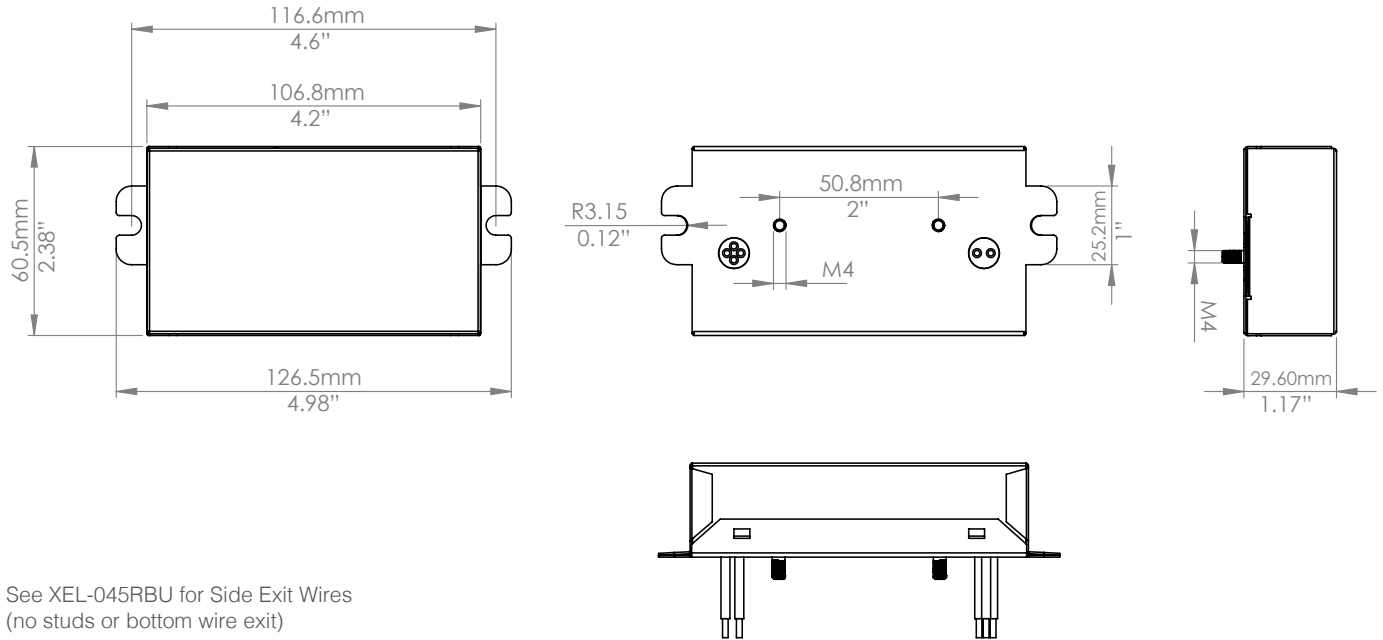
See product specific data pages for all details.

Typical Applications



Mechanical Drawings-Dimensions

(not to scale)



See XEL-045RBU for Side Exit Wires
(no studs or bottom wire exit)

Case

Material	Steel
Unit Weight	See variant pages for details
Dimensions	126.5mm x 60.5mm x 29.6mm
Fixings	2x M4 Studs

Wire Dimensions

Wire Gauge	18AWG
Wire Length	150mm (±20mm)
Strip Length	10mm (±2mm)

Available Models

Variations available upon request

	Part Number	Output Current (A)	Output Voltage Range (V)	Line/Load Regulation	Maximum Efficiency	Max Output (W)
Constant Current Variants	XEL-045REU-C1X05A-ZNT02	1.05	26 ~ 42	±5%	88%	44.1W
	XEL-045REU-CX700A-ZNT02	0.70	26 ~ 42	±5%	88%	29.4W
	XEL-045REU-CX500A-ZNT02	0.50	26 ~ 42	±5%	86%	21.0W
	XEL-045REU-CX350A-ZNT02	0.35	26 ~ 42	±5%	84%	14.7W
	XEL-045REU-CX250A-ZNT02	0.25	26 ~ 42	±5%	83%	10.5W

The information and specifications contained in this summary sheet are believed to be accurate and reliable at the time of publication, however Xenerqi Limited assumes no responsibility for damages caused due to potential errors. Also, Xenerqi Limited assumes no responsibility for the use of this product in such a way that it infringes on patents or other rights of third parties. No license is granted by implication or otherwise under any patent rights of Xenerqi Limited. Specifications are subject to change without notice.

Specification Data

Output	DC Voltage Range	26 ~ 42 Vdc (full power 20 ~ 42Vdc)
	Rated Current Range	0.25 ~ 1.05 A (not dimmed - see specific model pages)
	Rated Power	10 ~ 44W
	Line Regulation ¹	±5%
	Load Regulation ¹	±5%
	Turn On/Off Time	< 750ms (at full load)
Input	Voltage Range ²	120 ~ 277Vac Nominal (108 ~ 305Vac Operational)
	Frequency Range	47 ~ 63 Hz
	Power Factor	PFC > 0.9 at ≥ 75% of full power over nominal input range
	THD	THD < 20% at ≥ 75% of full power over nominal input range
	Typical Inrush Current	< 4.0A (per ANSI)
Dimming	Modes	DC Dimming control: 0-10Vdc (1%) Sink/ Source
	0-10V Source Current	260µA
	Compatibility	IEC Compliant. Customized dimming curves available upon request
Protection	Short Circuit	Auto-restart
	Over Voltage	Vout < 60V (Class-2)
	Over Current	Inherently limited over operational range
	Over Temperature	Current foldback at hotspot greater than 85°C (shut down at <100°C) ⁴
Environment	Working Temperature	-20°C ~ 55°C ambient (Hotspot rated for 90°C) ³
	Working Humidity	20% ~ 90% RH non-condensing
	uL Rating	Damp location use
	Storage Temperature	-40°C ~ 85°C ambient
	Storage Humidity	10% ~ 90% RH non-condensing
	Impact Resistance	1 g/s
	Vibration	3 ~ 50Hz 1g
Safety & EMC	Safety Standards	UL8750, Class 2 (UL1310)
	Noise Rating	Class A
	EMI Conduction & Radiation	Compliant with FCC CFR Title 47 Part 15 Class A at 120/277Vac
	EMC Susceptibility	EN61000-4-3, EN61000-4-2, EN61000-4-4
	Transient Immunity	2kV/1kV Combination, 2.5kV Ringwave

¹ Guaranteed only within nominal input range

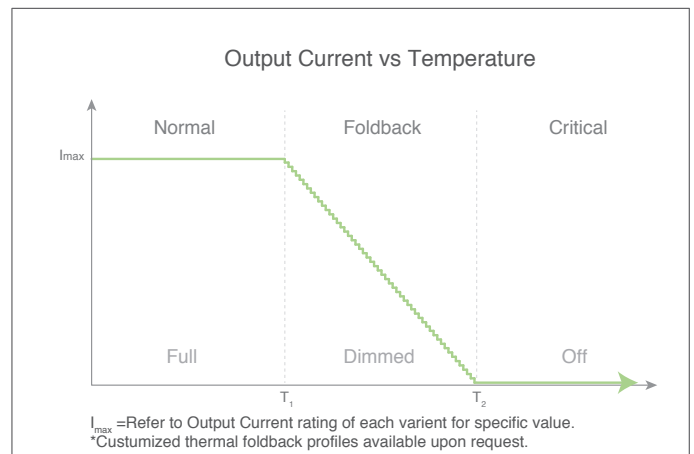
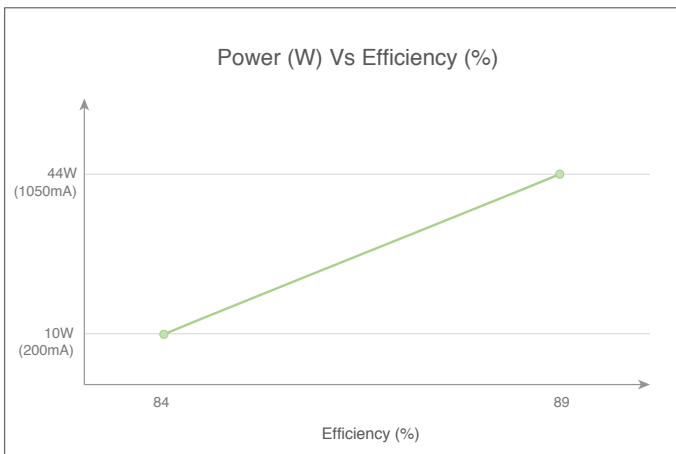
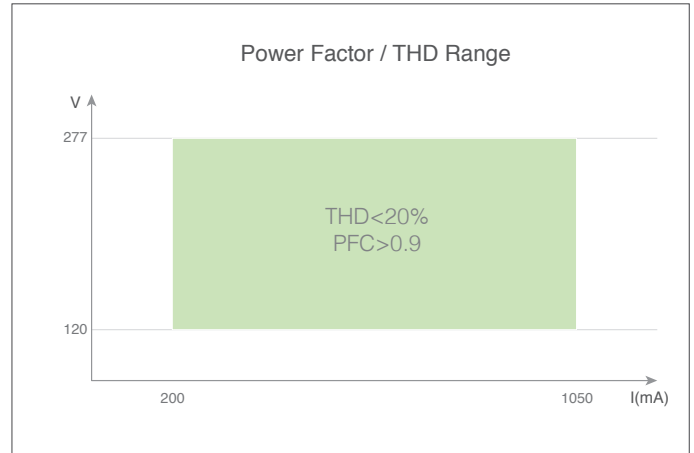
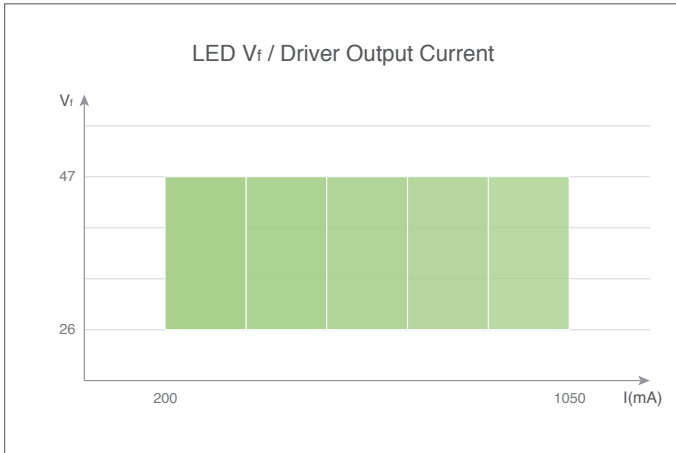
² Critical parameters guaranteed over nominal input range

³ Ambient is estimated. Trigger point is based on actual temperature at hotspot

⁴ Shutdown requires power cycle to recover

Operation Performance-Family

Graphical Data Plots



Installation Guide

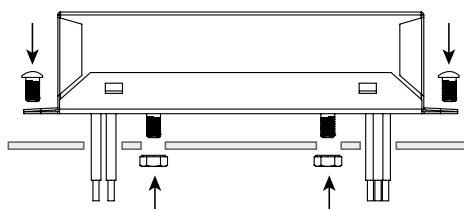
Wiring & Mounting Diagrams



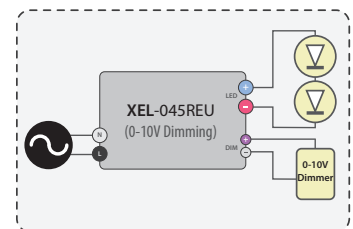
WARNING: TO REDUCE THE RISK OF FAILURE / INJURY:

LUMINAIRE MUST BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LOCAL CODES.

FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY AND/ OR DAMAGE TO THE LUMINAIRE.



Fix using 2 M4 screws and 2 M4 nuts for recommended mounting.
See XEL-045RBU for Side Exit Wires (no studs or bottom wire exit)



Wires	Colours	Type	Wires	Colours	Type
Input	White (Neutral)	UL1015 AWG 18	Dimming	Purple (Dim +)	UL1430
	Black (Line)	UL1015 AWG 18		Grey (Dim -)	AWG 18
Output	Red (Positive)	UL1430 AWG 18			
	Blue (Negative)	UL1430 AWG 18			

XEL-045REU-CX250A-ZNT02

Commercial Series

10W LED Driver
0-10V, 1% Dimming



Part Number	Output Current (A)	Output Voltage Range (V)	Line/Load Regulation	Maximum Efficiency	Max Output (W)
XEL-045REU-CX250A-ZNT02	0.25	26 ~ 42	±5%	84%	10.5W

Case

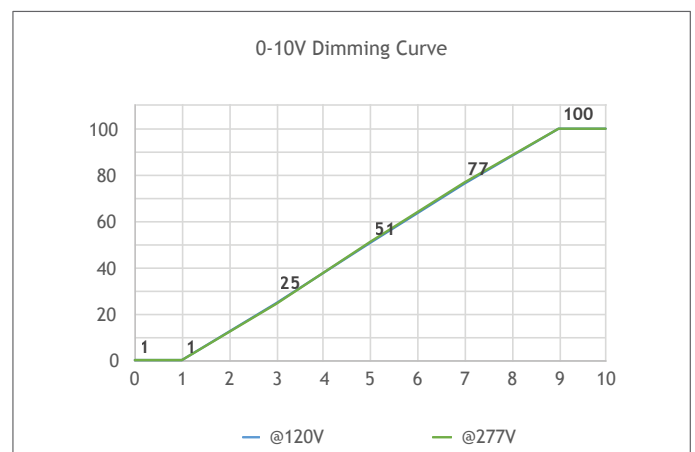
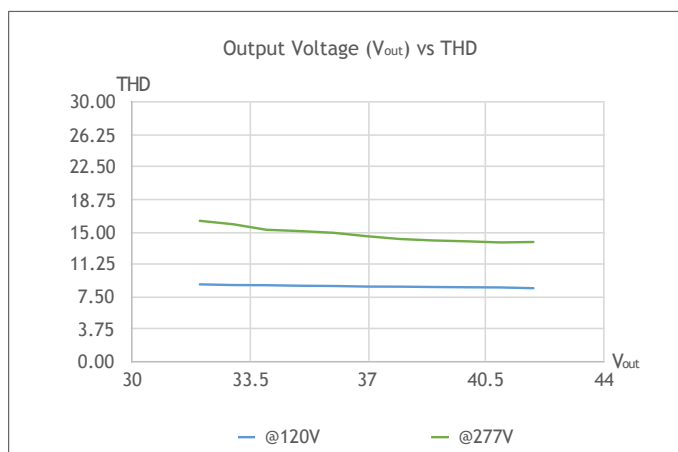
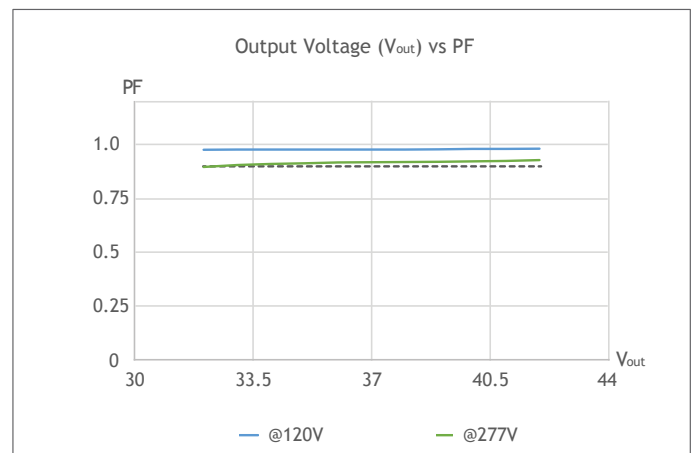
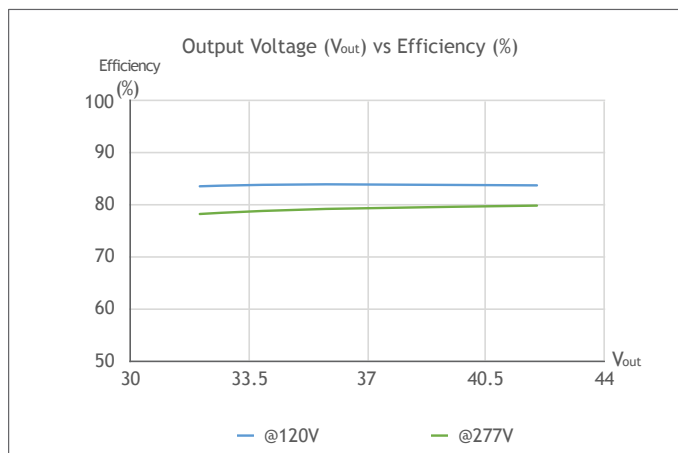
Material	Steel
Unit Weight	234g
Dimensions	126.5mm x 60.5mm x 29.6mm
Fixings	2x M4 Studs

Wire Dimensions

Wire Gauge	AWG 18/ AWG XX (dim)
Wire Length	150mm (±20mm)
Strip Length	10mm (±2mm)

*Unit weight is approximate and can vary by up to ±10%

Operation Performance-CX250A



Logarithmic curve available upon request.

XEL-045REU-CX350A-ZNT02

Commercial Series

15W LED Driver
0-10V, 1% Dimming



Part Number	Output Current (A)	Output Voltage Range (V)	Line/Load Regulation	Maximum Efficiency	Max Output (W)
XEL-045REU-CX350A-ZNT02	0.35	26 ~ 42	±5%	85%	14.7W

Case

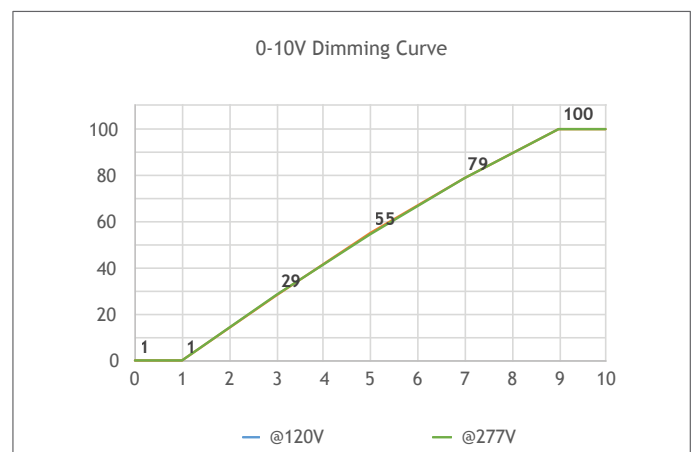
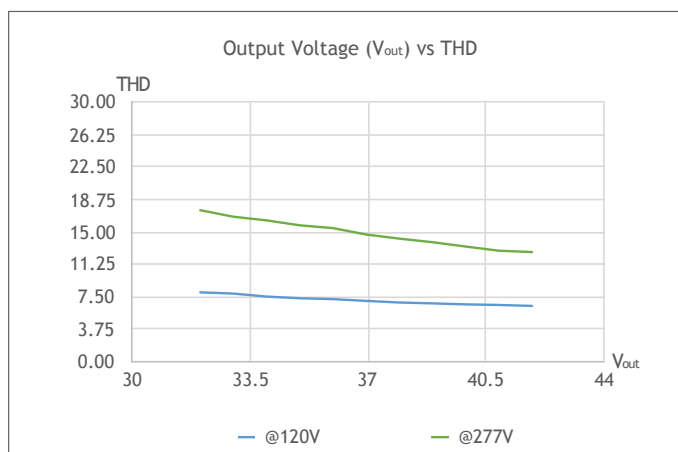
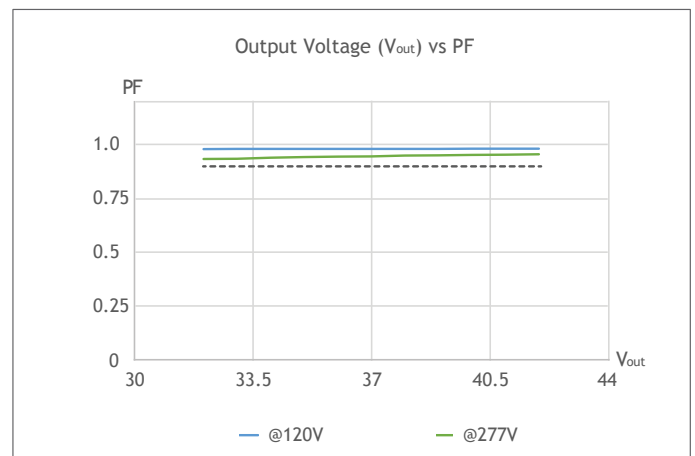
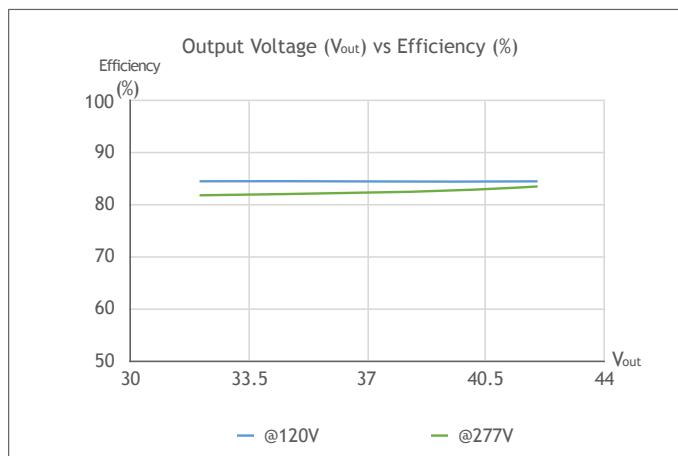
Material	Steel
Unit Weight	234g
Dimensions	126.5mm x 60.5mm x 29.6mm
Fixings	2x M4 Studs

Wire Dimensions

Wire Gauge	AWG 18/ AWG XX (dim)
Wire Length	150mm (±20mm)
Strip Length	10mm (±2mm)

*Unit weight is approximate and can vary by up to ±10%

Operation Performance-CX350A



XEL-045REU-CX500A-ZNT02

Commercial Series

21W LED Driver
0-10V, 1% Dimming



Part Number	Output Current (A)	Output Voltage Range (V)	Line/Load Regulation	Maximum Efficiency	Max Output (W)
XEL-045REU-CX500A-ZNT02	0.50	26 ~ 42	±5%	87%	21.0W

Case

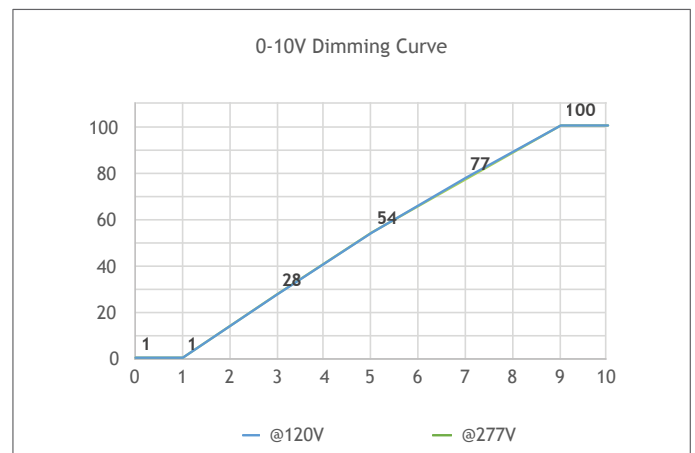
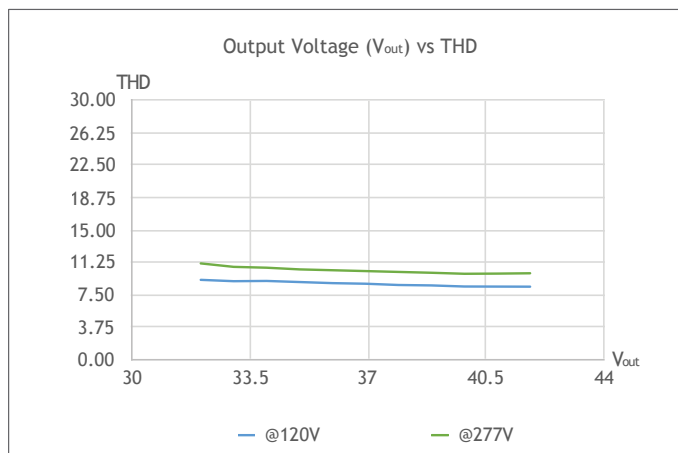
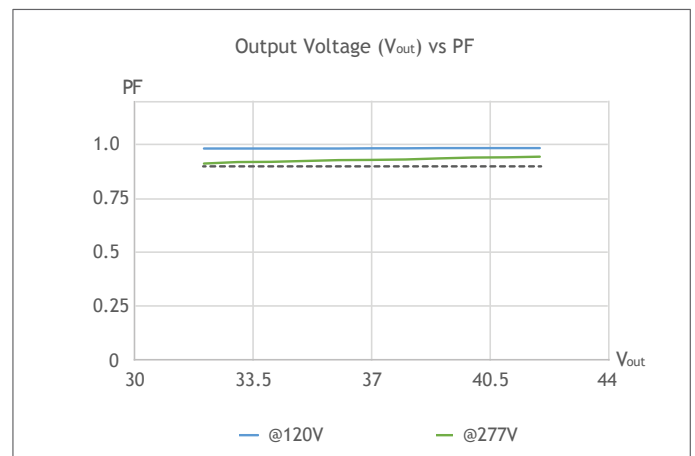
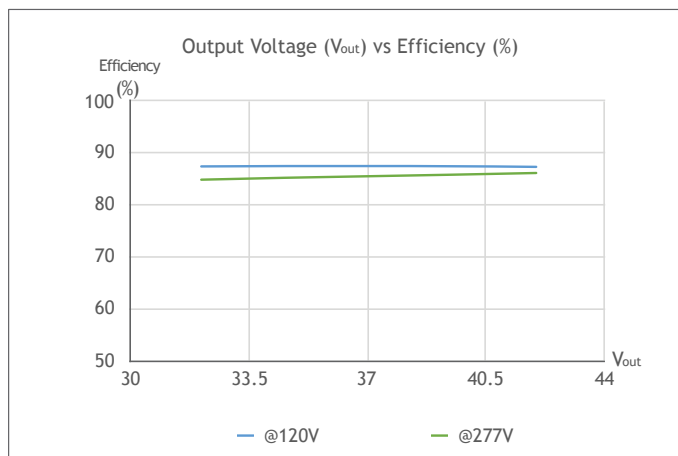
Material	Steel
Unit Weight	360g
Dimensions	126.5mm x 60.5mm x 29.6mm
Fixings	2x M4 Studs

Wire Dimensions

Wire Gauge	AWG 18/ AWG XX (dim)
Wire Length	150mm (±20mm)
Strip Length	10mm (±2mm)

*Unit weight is approximate and can vary by up to ±10%

Operation Performance-CX500A



XEL-045REU-CX750A-ZNT02

Commercial Series

29W LED Driver
0-10V, 1% Dimming



Part Number	Output Current (A)	Output Voltage Range (V)	Line/Load Regulation	Maximum Efficiency	Max Output (W)
XEL-045REU-CX700A-ZNT02	0.70	26 ~ 42	±5%	89%	29.4W

Case

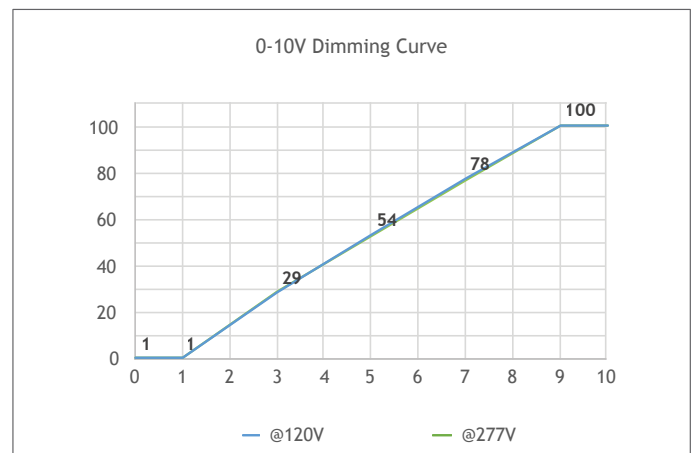
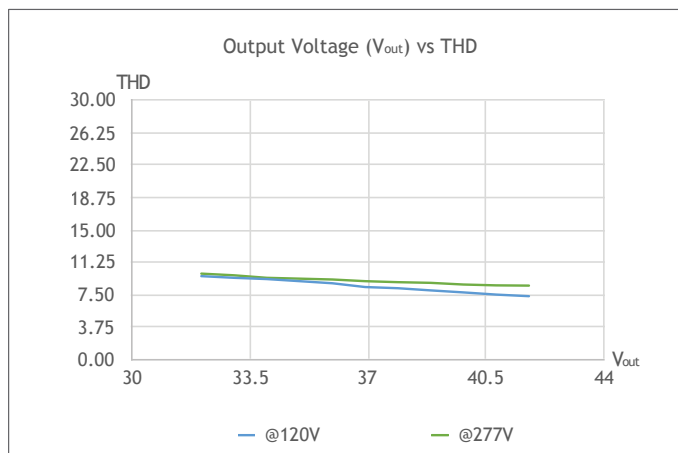
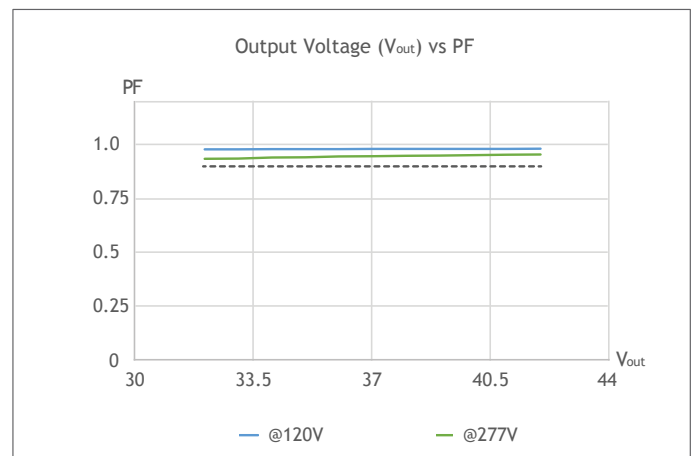
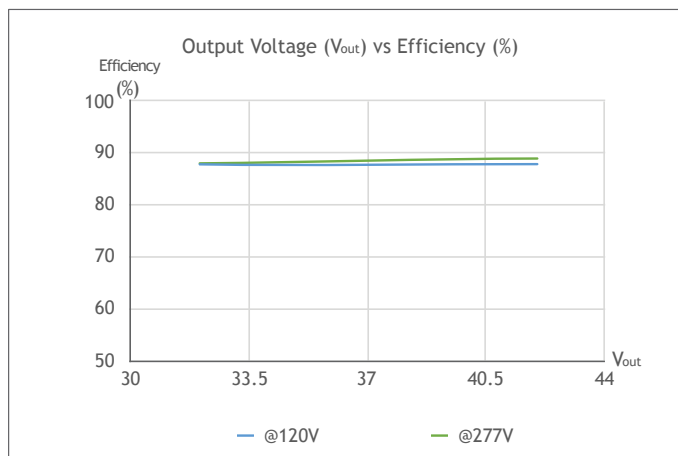
Material	Steel
Unit Weight	360g
Dimensions	126.5mm x 60.5mm x 29.6mm
Fixings	2x M4 Studs

Wire Dimensions

Wire Gauge	AWG 18/ AWG XX (dim)
Wire Length	150mm (±20mm)
Strip Length	10mm (±2mm)

*Unit weight is approximate and can vary by up to ±10%

Operation Performance-CX700A



XEL-045REU-CX50A-ZNT02

Commercial Series

44W LED Driver
0-10V, 1% Dimming



Part Number	Output Current (A)	Output Voltage Range (V)	Line/Load Regulation	Maximum Efficiency	Max Output (W)
XEL-045REU-CXX50A-ZNT02	1.05	26 ~ 42	±5%	89%	44.1W

Case

Material	Steel
Unit Weight	375g
Dimensions	126.5mm x 60.5mm x 29.6mm
Fixings	2x M4 Studs

Wire Dimensions

Wire Gauge	AWG 18/ AWG XX (dim)
Wire Length	150mm (±20mm)
Strip Length	10mm (±2mm)

*Unit weight is approximate and can vary by up to ±10%

Operation Performance-CXX50A

