

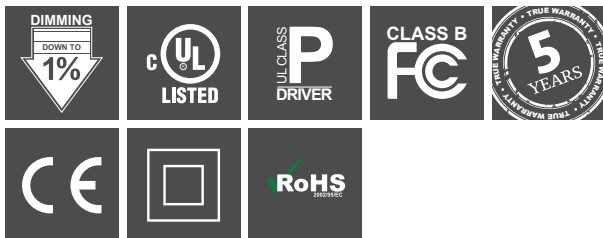
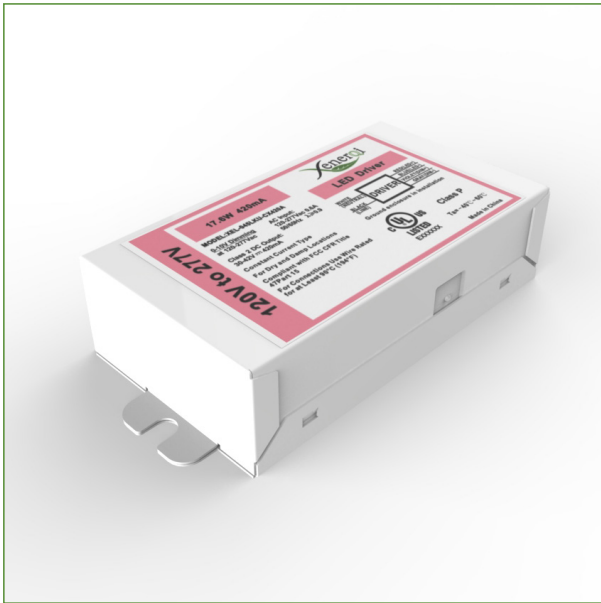


# XEL-045REU

## Configurable Commercial Series

5~45W LED Driver Family  
0-10V, 1% Dimming

Nominal Input Voltage (Vin)	Family Output Power Range (W)	Output Voltage Range (Vout)	Output Current Range (A)	Efficiency (%)	UL Max Case Temp. TC (°C)	THD (%)	Power Factor	Dimming Method	Dimming Range (%)
120~277Vac	5~45W	26~42Vdc	0.18~1.05A	≤ 88% (typical)	90°C	< 20%	> 0.9	0-10V (Isolated Sink/Source)	1-100% (% of Iout)



### Variants available:

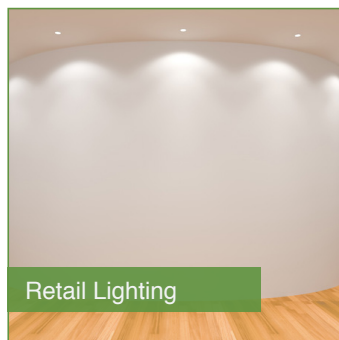
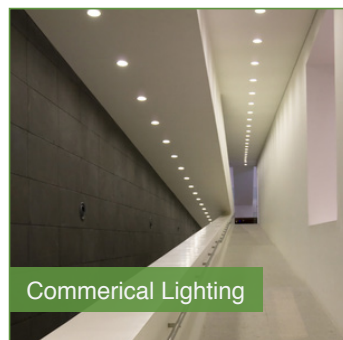
- Indoor Side Exit Wires
- Indoor 347V (Canada) Bottom Exit Wires
- Outdoor Side Exit Wires
- Outdoor Bottom Exit Wires
- Mount Bracket Accessory Available

XEL-045RBU  
XEL-045REC  
XEL-045LBU  
XEL-045LEU

- ✓ Ideal for Indoor Downlight & Recessed Lighting
- ✓ Universal AC input (108~305Vac)
- ✓ Field Adjustable & Preset Fixed Output Current Ratings
- ✓ 1% Deep Dimming (0-10V) (optional higher levels)
- ✓ Enables DLC compliant fixtures
- ✓ Class P UL Driver
- ✓ 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 & temperature protection
- ✓ Turn on & Full power operation between -30°C to +55°C ambient <sup>1</sup>
- ✓ XenerQi Industry Leading 5 Year True Warranty™<sup>2</sup>
- ✓ Class 2 power supply
- ✓ Double-insulated power supply between input and output (class II)
- ✓ Complies to FCC CFR Title 47 Part 15

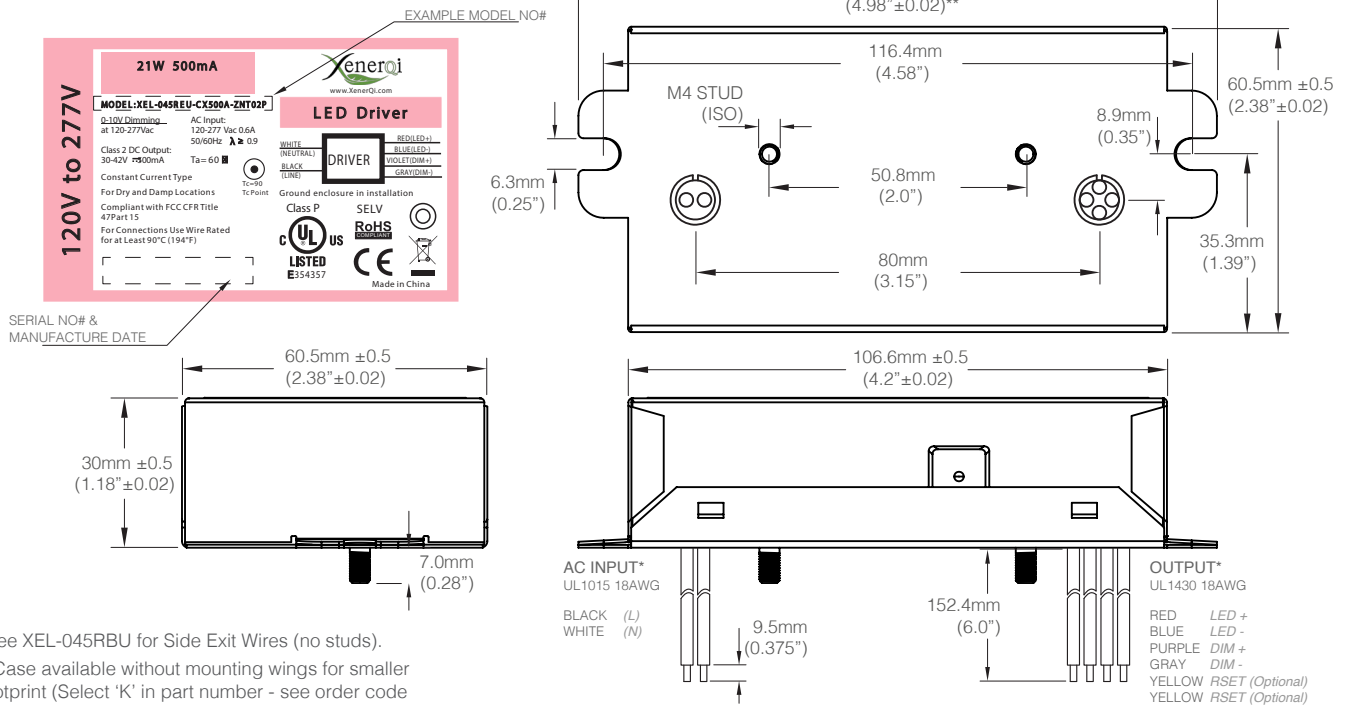
See available model table & product specific data pages for details.

## Typical Applications



# Mechanical Drawings-Dimensions

(not to scale)



\*See XEL-045RBU for Side Exit Wires (no studs).

\*\*Case available without mounting wings for smaller footprint (Select 'K' in part number - see order code instructions for details)

Case		Wire Dimensions	
<b>Material</b>	Steel	<b>Wire Gauge</b>	18AWG
<b>Unit Weight</b>	See variant pages for details	<b>Wire Length</b>	152.4mm ( $\pm 3$ mm) / 6" ( $\pm 0.12$ ")
<b>Dimensions</b>	126.5mm x 60.5mm x 30mm / 5.0" x 2.4" x 1.2"	<b>Strip Length</b>	9.5mm ( $\pm 0.5$ mm) / 0.375" ( $\pm 0.02$ ")
<b>Recommended Fixings</b> 2x M6*8mm / 12-24*5/15" Fastners / 2x M4 Nuts			

## Installation Guide

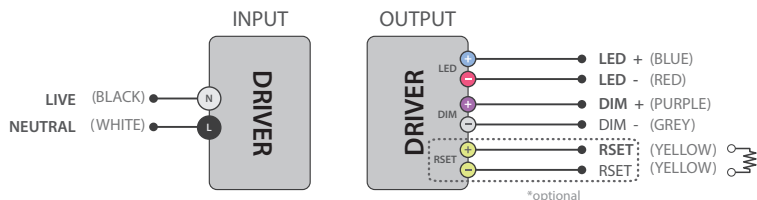
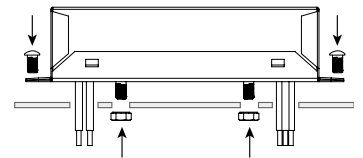
### Mounting & Wiring Diagrams



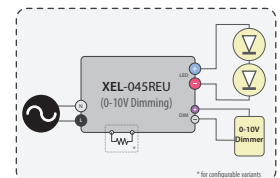
**WARNING: TO REDUCE THE RISK OF FAILURE / INJURY:**

DRIVER MUST BE INSTALLED IN LUMINAIRE AND GROUNDED IN ACCORDANCE WITH THE LOCAL CODES. DRIVER CASE MUST BE ELECTRICALLY GROUNDED. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY AND/ OR DAMAGE TO THE SYSTEM.

Fix using 2 M6 screws and 2 M4 nuts for recommended mounting.



Configurable variants are set up by connecting a resistor between the two yellow RSET wires.



Wires	Colors	Type	Wires	Colors	Type
<b>Input</b>	White (Neutral)	UL1015 AWG 18	<b>Dimming</b>	Purple (Dim +)	UL1015 AWG 18
	Black (Line)	UL1015 AWG 18		Grey (Dim -)	UL1015 AWG 18
<b>Output</b>	Red (Positive)	UL1430 AWG 18	<b>RSET (Optional)</b>	Yellow	UL1430 AWG 18
	Blue (Negative)	UL1430 AWG 18		Yellow	UL1430 AWG 18

## Specification Data

Output	DC Voltage Range	26 ~ 42 Vdc (full power 30 ~ 42Vdc)
	Optimized Vf Range <sup>6</sup>	36 ~ 38 Vdc
	Rated Current Range	0.18 ~ 1.05 A (not dimmed - see specific model pages)
	Rated Power Range	5 ~ 45W
	Line Regulation <sup>3</sup>	±5%
	Load Regulation <sup>3</sup>	±5%
	Turn On/Off Time	< 750ms (at full load)
Input	Voltage Range <sup>4</sup>	120 ~ 277Vac Nominal (108 ~ 305Vac Operational)
	Frequency Range	47 ~ 63 Hz
	Power Factor	PFC > 0.9 at ≥ 75% of full power <sup>4</sup>
	THD	THD < 20% at ≥ 75% of full power <sup>4</sup>
	Typical Inrush Current	< 4.0A (per ANSI test method. Compliant with NEMA410-2015)
Dimming	Modes	DC Dimming control: 0-10Vdc (1%) Sink/ Source (> 1% available on request)
	0-10V Source Current	260µA (Isolated)
	Compatibility	IEC Compliant. Customized dimming curves available upon request
Protection	Short Circuit	Auto-restart (after fault removed)
	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) <sup>5</sup>
Environment	Working Temperature	-30°C ~ 55°C ambient <sup>1</sup> (T <sub>case</sub> rated for 90°C)
	Working Humidity	20% ~ 90% RH non-condensing
	UL Rating	Dry / 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 (for 30 minutes)
	Operating Life	50,000 Hours at Full Load & Maximum Hotspot
Safety & EMC	Safety Standards	UL8750, Class 2 (UL1310), Class P rated
	Noise Rating	Class A (Less than 24dB measured at 1 meter) <sup>3,7</sup>
	EMI Conduction & Radiation	Compliant with FCC CFR Title 47 Part 15 Class A at 120/277Vac & Class B at 120V Compliant with European CE requirements
	EMC Susceptibility	EN61000-4-3, EN61000-4-2, EN61000-4-4
	Transient Immunity	2kV/1kA Combination, 2.5kV Ringwave Modes: L-N, L-G, N-G

<sup>1</sup> Ambient is estimated. Actual temperatures determined by trigger point temperature at driver hotspot. Assumed case is mounted on flat surface.

<sup>2</sup> True Warranty refers to operation at full load and max hotspot temperature. For specific warranty details refer to XenerQi published warranty document.

<sup>3</sup> Guaranteed only within nominal input range.

<sup>4</sup> Critical parameters guaranteed over nominal input range.

<sup>5</sup> Shutdown requires power cycle to recover.

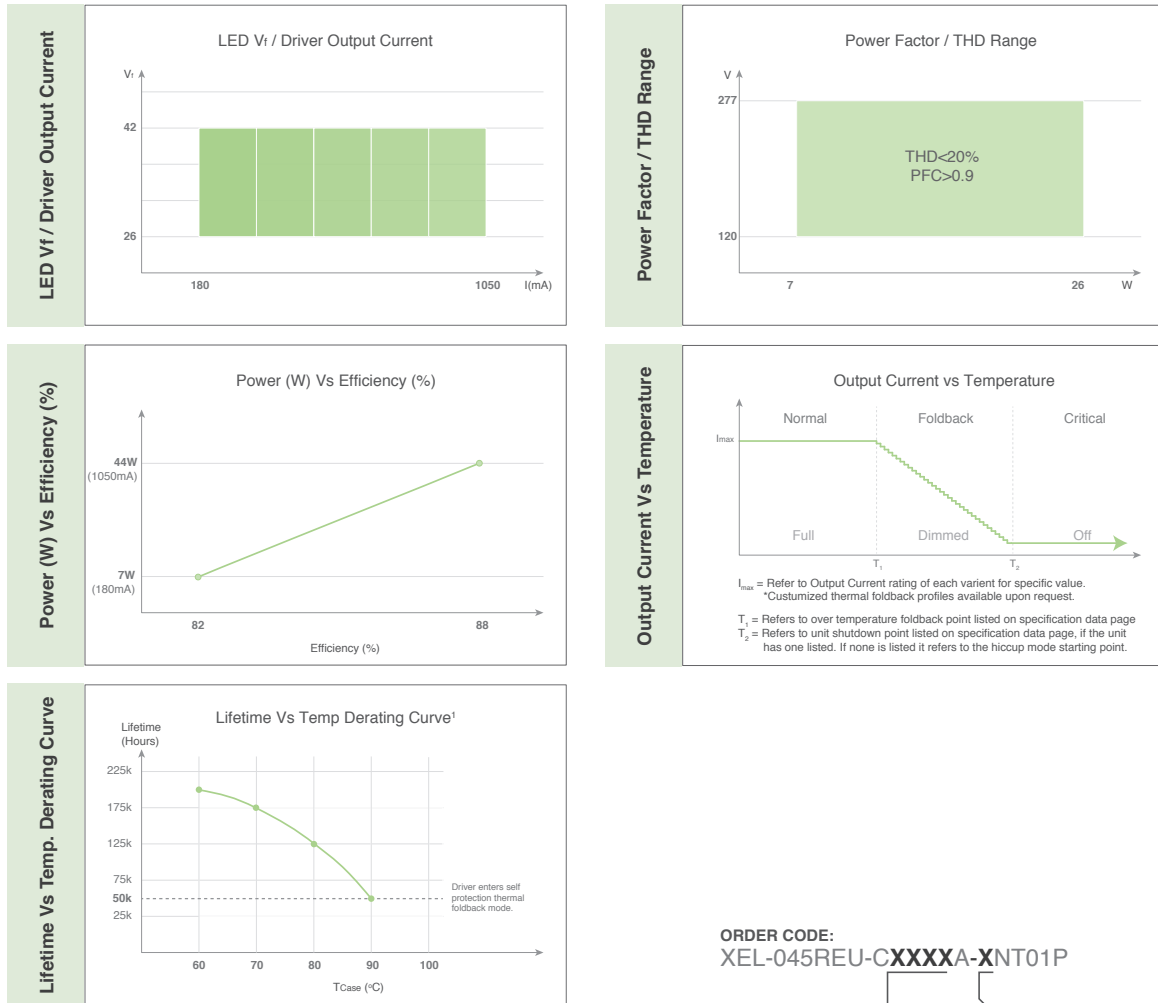
<sup>6</sup> Units optimized for steady state forward voltage as per "Optimized Vf Range" value in specification data, and for specific LED loads.

<sup>7</sup> List of LED loads available upon request.

<sup>8</sup> Tested under two conditions: with & without dimmer connected.

<sup>9</sup> Value listed is family maximum or minimum best case value as appropriate & can vary depending on part number.

## Operation Performance-Family



ORDER CODE:  
XEL-045REU-CXXXXA-XNT01P

R: Configurable Current  
Z: Fixed Current  
XXXX: Current Rating  
(See Available Model Table)

## Available Models

	Part Number	Output Current (mA)	Output Voltage Range (V)	Maximum Efficiency <sup>6</sup>	Max Output (W)
Configurable Output Current Variants	XEL-045REU-C1X05A-RNT01P	1050	26 ~ 42	88%	44.1W
	XEL-045REU-CX700A-RNT01P	700	26 ~ 42	88%	29.4W
	XEL-045REU-CX350A-RNT01P	350	26 ~ 42	84%	14.7W
Fixed Output Current Variants	XEL-045REU-C1X05A-ZNT01P	1050	26 ~ 42	88%	44.1W
	XEL-045REU-CX700A-ZNT01P	700	26 ~ 42	88%	29.4W
	XEL-045REU-CX500A-ZNT01P	500	26 ~ 42	86%	21.0W
	XEL-045REU-CX350A-ZNT01P	350	26 ~ 42	84%	14.7W
	XEL-045REU-CX250A-ZNT01P	250	26 ~ 42	83%	10.5W
	XEL-045REU-CX180A-ZNT01P	180	26 ~ 42	82%	7.6W
	Customized Variants available upon request.				

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