

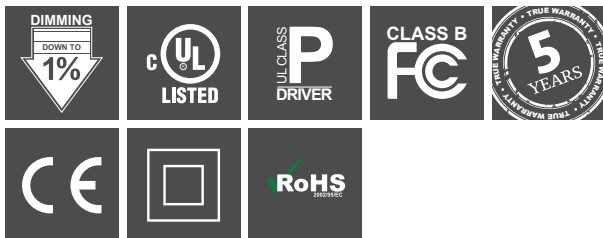
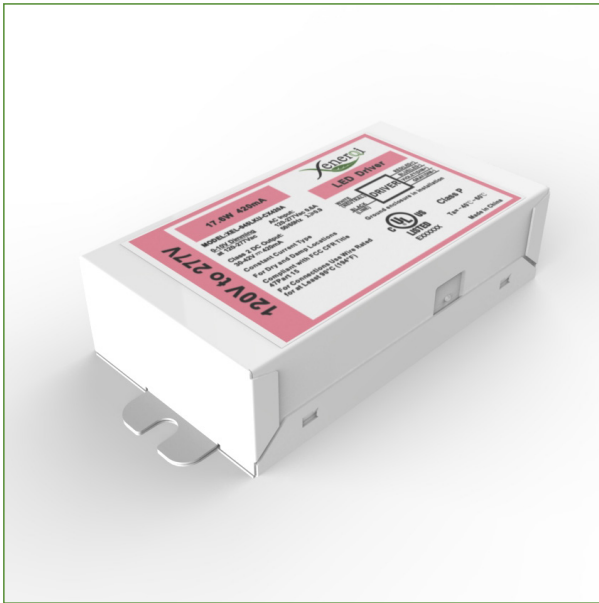


XEL-045REU

Configurable Commercial Series

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

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



Variants available:

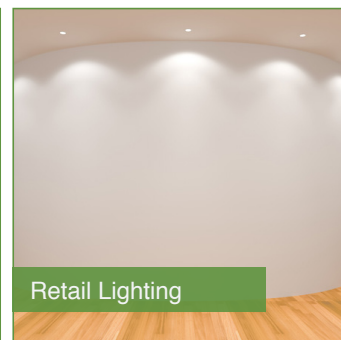
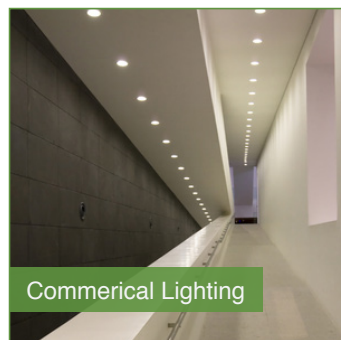
- Indoor Side Exit Wires
- Indoor 347V (Canada) Bottom Exit Wires
- Outdoor Side Exit Wires
- Outdoor Bottom Exit Wires
- Mount Bracket Accessory Available

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 ¹
- ✓ XenerQi Industry Leading 5 Year True Warranty™²
- ✓ Class 2 power supply
- ✓ Double-insulated power supply between input and output (class II)
- ✓ Complies to FCC CFR Title 47 Part 15

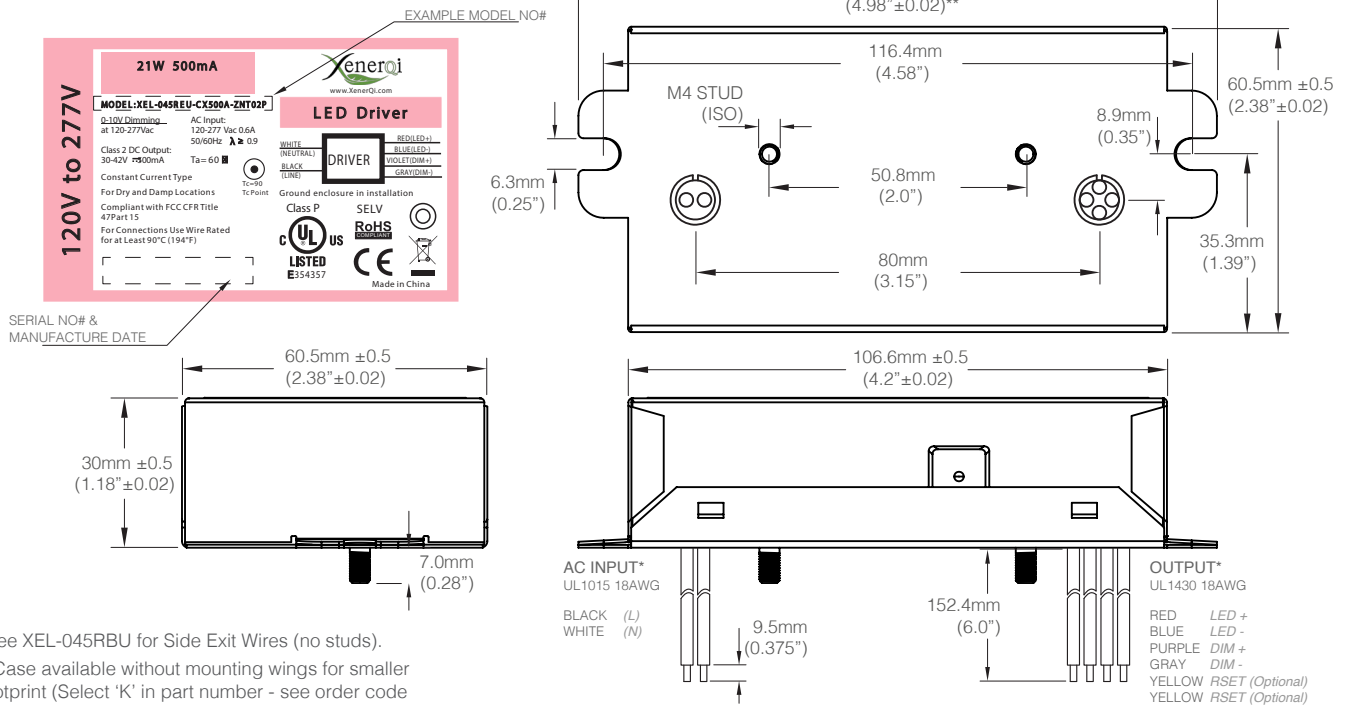
See product specific data pages for details.

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

Installation Guide

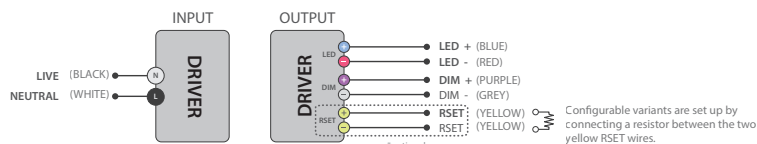
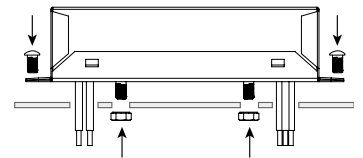
Mounting & Wiring Diagrams



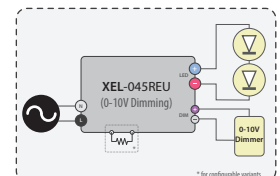
WARNING: TO REDUCE THE RISK OF FAILURE / INJURY:

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
Input	White (Neutral)	UL1015 AWG 18	Dimming	Purple (Dim +)	UL1015 AWG 18
	Black (Line)	UL1015 AWG 18		Grey (Dim -)	UL1015 AWG 18
Output	Red (Positive)	UL1430 AWG 18	RSET (Optional)	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 ⁶	36 ~ 38 Vdc
	Rated Current Range	0.18 ~ 1.05 A (not dimmed - see specific model pages)
	Rated Power	5 ~ 45W
	Line Regulation ³	±5%
	Load Regulation ³	±5%
	Turn On/Off Time	< 750ms (at full load)
Input	Voltage Range ⁴	120 ~ 277Vac Nominal (108 ~ 305Vac Operational)
	Frequency Range	47 ~ 63 Hz
	Power Factor	PFC > 0.9 at ≥ 75% of full power ⁴
	THD	THD < 20% at ≥ 75% of full power ⁴
	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
	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) ⁵
Environment	Working Temperature	-30°C ~ 55°C ambient ¹ (T _{case} 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
Safety & EMC	Operating Life	50,000 Hours at Full Load & Maximum Hotspot
	Safety Standards	UL8750, Class 2 (UL1310), Class P rated
	Noise Rating	Class A
	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

¹ Ambient is estimated. Trigger point is based on temperature at hotspot & assumed case is mounted on flat surface.

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

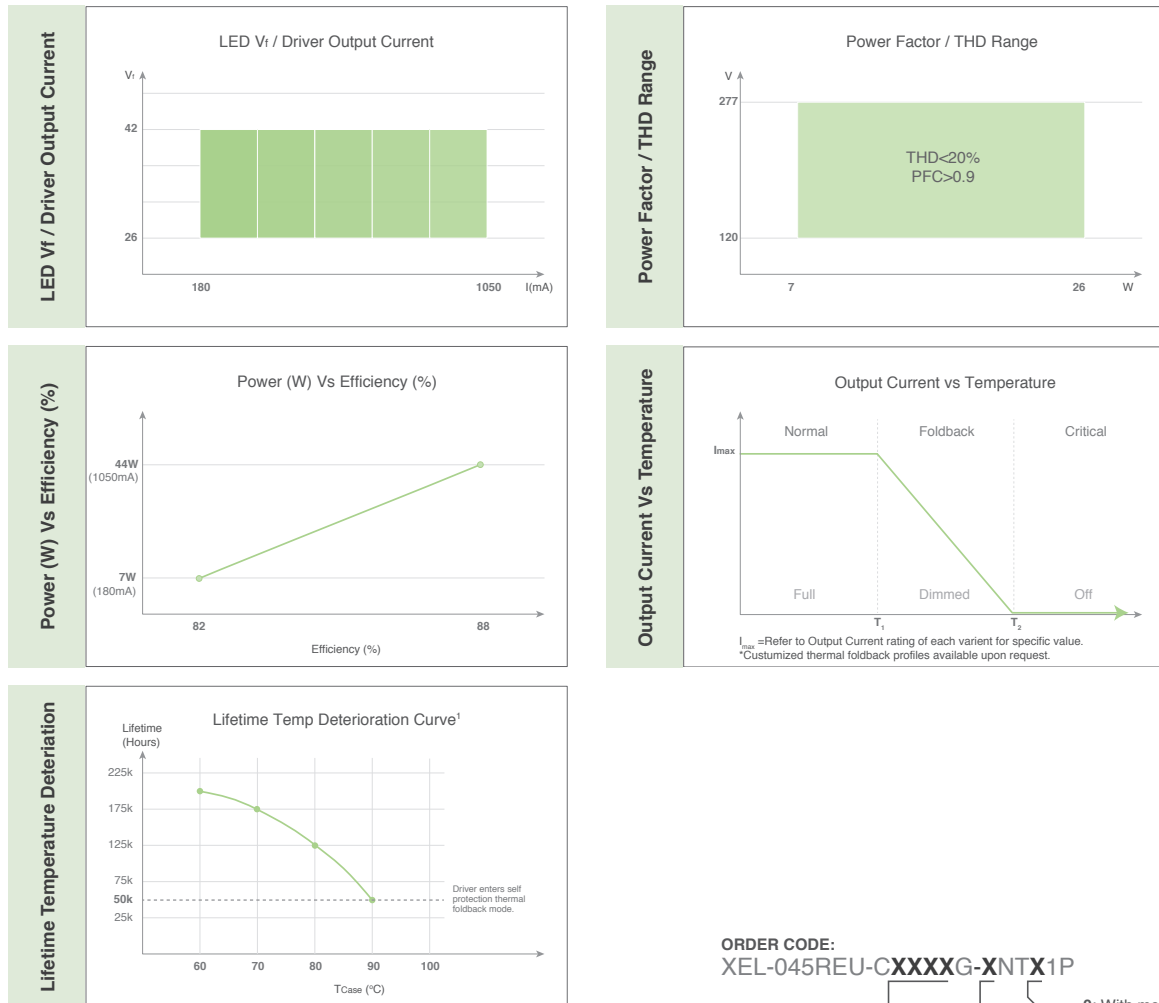
³ Guaranteed only within nominal input range.

⁴ Critical parameters guaranteed over nominal input range.

⁵ Shutdown requires power cycle to recover.

⁶ Units optimized for steady state forward voltage as per "Optimized Vf Range" value in specification data.

Operation Performance-Family



Available Models

	Part Number	Output Current (mA)	Output Voltage Range (V)	Maximum Efficiency ⁶	Max Output (W)
Configurable Output Current Variants	XEL-045REU-C1X05G-RNT01P	1050	26 ~ 42	88%	44.1W
	XEL-045REU-CX700G-RNT01P	700	26 ~ 42	88%	29.4W
	XEL-045REU-CX350G-RNT01P	350	26 ~ 42	84%	14.7W
Fixed Output Current Variants	XEL-045REU-C1X05G-ZNT01P	1050	26 ~ 42	88%	44.1W
	XEL-045REU-CX700G-ZNT01P	700	26 ~ 42	88%	29.4W
	XEL-045REU-CX500G-ZNT01P	500	26 ~ 42	86%	21.0W
	XEL-045REU-CX350G-ZNT01P	350	26 ~ 42	84%	14.7W
	XEL-045REU-CX250G-ZNT01P	250	26 ~ 42	83%	10.5W
	XEL-045REU-CX180G-ZNT01P	180	26 ~ 42	82%	7.6W
	Customized Variants available upon request.				

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