XEL-045R

Configurable Commercial Series

eneroi

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

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





















- ☐ 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)
- ∇ Turn on/off in less than 750 miliseconds
- Da Built-in Commercial grade Surge Protection
- □ Integrated over voltage & open load, over current, short circuit & temperature protection
- Double-insulated power supply between input and output (Class II)
- ☐ Turn on & Full power operation between -30°C to +55°C ambient¹
- XenerQi Industry Leading 5 Year True Warranty^{™ 2}
- Q UL Class P & Class 2 Output Driver
- Q Class A Noise Rating
- Complies to FCC CFR Title 47 Part 15

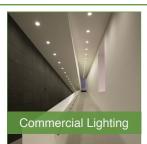
See product specific data pages for details.

Typical Applications











Dimensions & Installation

(not to scale)

CASE

Material	Painted White Steel
Unit Weight	See variant pages for details
Dimensions	126.5mm x 60.5mm x 30mm / 5.0" x 2.4" x 1.2

WIRING

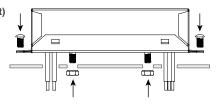
Input Wires	18AWG (UL1569) (L:Black, N:White)
Output Wires	18AWG (UL1569) (LED+:Red, LED-:Blue)
DIM Wires	18AWG (UL1430) (DIM+:Purple, DIM-:Gray)
RSET Wires*	18AWG (UL1430) (RSET:Yellow)
Wire Lengths	152.4mm (±3mm) / 6" (±0.12")
Strip Lengths	9.5mm (±0.5mm) / 0.375" (±0.02")

^{*} Optional - See "Configurable Output" PN's in Available Model Table.

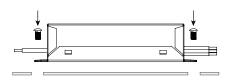
MOUNTING & INSTALLATION

Fixings 2x M6*8mm / 12-24*5/15" Fastners / 2x M4 Nuts

REU (Bottom Exit)



RBU (Side Exit)







WARNING: TO REDUCE THE RISK OF FAILURE / INJURY

DRIVER CASE MUST BE ELECTRICALLY GROUNDED.
DRIVER MUST BE INSTALLED IN LUMINAIRE IN
ACCORDANCE WITH THE LOCAL CODES.

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

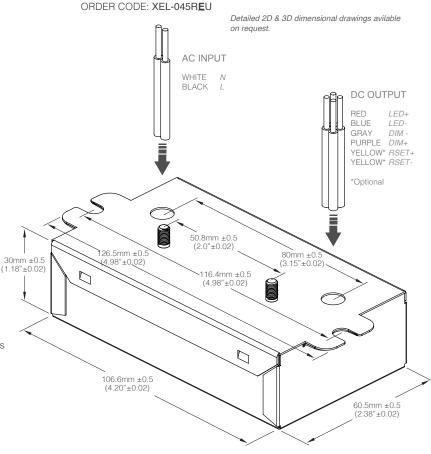
(DRIVER INSTALLATION WITHIN LUMINAIRE MUST FORM A FIRE RATED ENCLOSURE - ELECTRICAL CONNECTIONS MUST BE MADE WITHIN A FIRE RATED ENCLOSURE - COMPLIANCE IS THE RESPONSIBILITY OF THE LUMINAIRE MANUFACTURER)

LABELS

Example Label

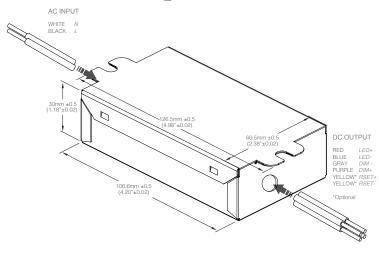


BOTTOM EXIT WIRE PACKAGE (REU)



SIDE EXIT WIRE PACKAGE (RBU)

ORDER CODE: XEL-045RBU



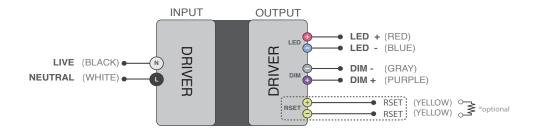
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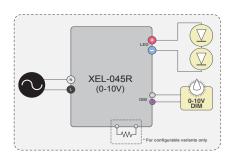
Specification Data

Output ³	Power Range Current Range Output Voltage Range Optimized Vf Range ⁶ Line Regulation ³ Load Regulation ³ Turn On/Off Time	5~45W MAX (See Available Models for variant specific data) 0.18~1.05A (Not Dimmed - See Available Models for variant specific data) 26~42Vdc (Full Power 30 ~ 42dc) 36~38Vdc (For 42 max) ±5% < 750ms (at full load)
Input	Voltage Range⁴ Max Input Power Frequency Range Power Factor THD Typical Inrush Current	120 ~ 277Vac Nominal (108 ~ 305Vac Operational) 60W 47 ~ 63 Hz PFC > 0.9 at \geq 75% of full power ⁴ THD < 20% at \geq 75% of full power ⁴ < 4.0A (per ANSI test method. Compliant with NEMA410-2015)
Dimming ⁸	Modes 0-10V Source Current Compatibility	DC Dimming Control: 0-10Vdc (1%) Sink / Source (> 1% available on request) 260µA (Isolated) IEC Compliant. Customized dimming curves available upon request
Protection	Short Circuit Over Voltage & Open Load Over Current Over Temperature	Auto-restart (after fault removed) Vout < 60V (Class-2) Inherently limited over operational range Current foldback at hotspot greater than 85°C (shut down at <100°C) ⁵
Environment	Working Temperature Working Humidity UL Rating Storage Temperature Storage Humidity Vibration & Impact Resistance Operating Life	-30°C ~ 55°C ambient¹ (Tc rated for 90°C) 20% ~ 90% RH non-condensing Dry / Damp location use -40°C ~ 85°C ambient 10% ~ 90% RH non-condensing 3 ~ 50Hz 1g (for 30 minutes) / 1 g/s (Impact Resistance) 50,000 Hours (at full load and maximum hotspot power)
Safety & EMC	Safety Standards Noise Rating EMI Conduction & Radiation EMC Susceptibility Transient Immunity	UL8750, Class 2 (UL1310), Class P rated Class A (Less than 24dB measured at 1 meter) 3.7 Compliant with FCC CFR Title 47 Part 15 Class A (Class B @ 120V) CAN ICES (A) (B @ 120V) / NMB-005 (A) (B @ 120V) Compliant with European CE Requirements EN61000-4-3, EN61000-4-2, EN61000-4-4 2kV/1kA Combination, 2.5kV Ringwave Modes: L-N, L-G, N-G For applications with higher surge protection requirements, pair with XenerQi's lighting optimized surge protectors: 10K Surge Protection: XEL-PA10S-277 / XEL-SU10C-277 20K Surge Protection: XEL-PA20S-277 / XEL-SU20C-277

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Typical Application & Wiring Diagram





Ordering Codes & Available Models



CASE OPTIONS: BOTTOM / SIDE EXIT WIRES XEL-045R**E** XEL-045R**B**

	Part Number / Ordering Codes (Replace X with case choice)	Output Current (mA)	Output Voltage Range (V)	Maximum Efficiency ^{6,7}	Max Output (W)
nts	XEL-045R X U-C1X05E-RNT01P	1050	30 ~ 38	88.0%	39.9W
BLE Varia	XEL-045R X U-CX700A-RNT01P	700	26 ~ 42	88.0%	29.4W
URA rent	XEL-045R X U-CX350A-RNT01P	350	26 ~ 42	84.0%	14.7W
CONFIGURABLE Output Current Variants					
nts	XEL-045R X U-C1X05A-ZNT01P	1050	26 ~ 42	88.0%	44.1W
Variants	XEL-045R X U-CX700A-ZNT01P	700	26 ~ 42	88.0%	29.4W
ED ent	XEL-045R X U-CX500A-ZNT01P	500	26 ~ 42	86.0%	21.0W
FIXED Current	XEL-045R X U-CX350A-ZNT01P	350	26 ~ 42	84.0%	14.7W
Output	XEL-045R X U-CX250A-ZNT01P	250	26 ~ 42	83.0%	10.5W
0	XEL-045R X U-CX180A-ZNT01P	180	26 ~ 42	82.0%	7.6W
	Customized Variants available upon request. Replace 'X' with required feature alphanumeric when ordering.				

¹ Ambient is estimated. Actual temperatures determined by trigger point temperature at driver hotspot. Assumed case is correctly mounted on flat surface. ² Warranty refers to operation for conditions listed under "Operating Life". For specific warranty details refer to XenerQi published warranty document.

August and to designed to meet the 2019 flicker recommendations from IEEE/NEMA with an emphasis on human factors engineering. When the driver is utilized with the appropriate LED load and conditions, the Luminaire should be able to meet IEEE-1789 recommendations for Green/Low-Risk.

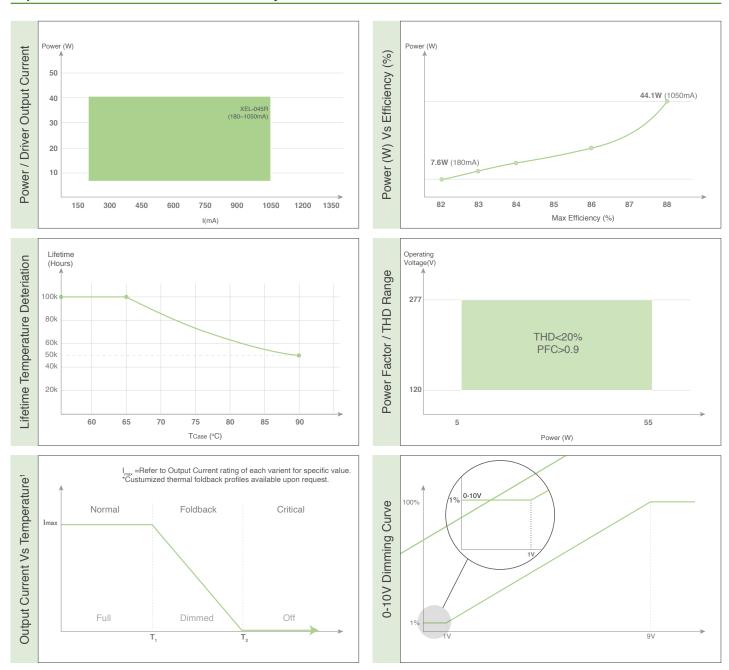
Warranty refers to operation for conditions is listed under two conditions: with & without dimmer connected.

Tested under two conditions: with & without dimmer connected.

Driver is designed to meet the 2019 flicker recommendations from IEEE/NEMA with an emphasis on human factors engineering. When the driver is utilized with the appropriate LED load and conditions, the Luminaire should be able to meet IEEE-1789 recommendations for Green/Low-Risk.

Dimming performance may vary depending on brand and make of dimmer used as well as number of drivers connected to it.

Operation Performance-Family





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