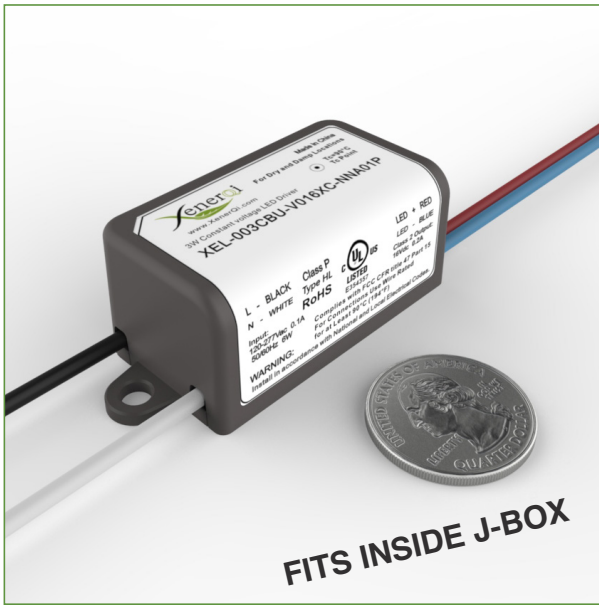




XEL-003CBU

Small Form Factor IoT Commercial Power

3W LED Driver Family
Constant Voltage Supply



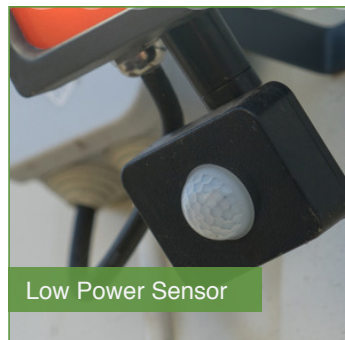
- Designed to power commercial IoT devices
- Ideal for Stairwell, Accent & Step Lighting
- Can be used for WIFI, BT & Occupancy Sensors
- Universal AC input (108~305Vac)
- Full power operation between -40°C to +65°C ambient
- 12V & 16V Output Voltage Variants
- Class A Noise Rating
- 5 year warranty
- FCC CFR Title 47 Part 15 Class B
- UL Class P Driver

See product specific data pages for all details.

Typical Applications



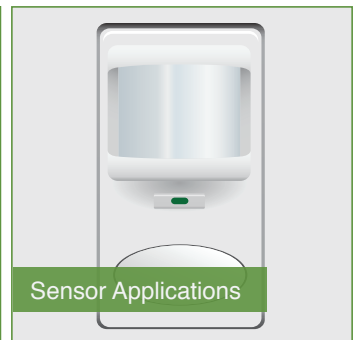
Stairwell Lighting



Low Power Sensor



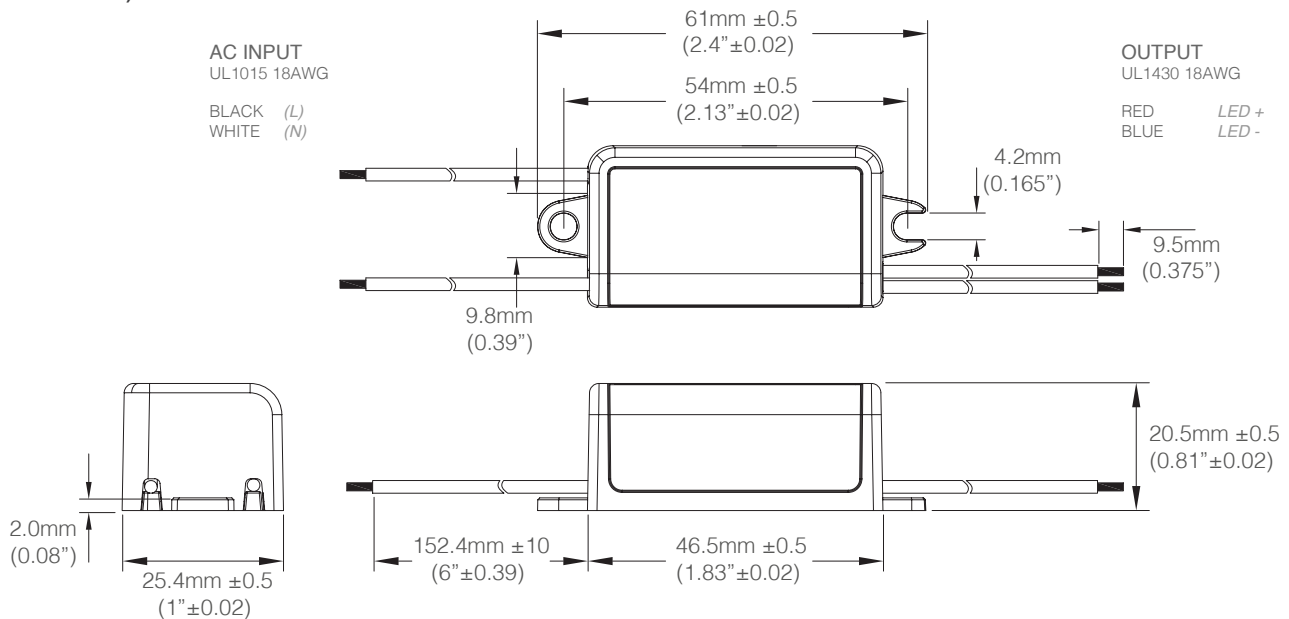
J-Box Mount



Sensor Applications

Mechanical Drawings-Dimensions

(not to scale)



Case

Material	Plastic (5VA)
Unit Weight	56g (±6mm)
Dimensions	46.5mm x 25.6mm x 20.6mm
Fixings	2x M4 Screws

Wire Dimensions

Wire Gauge	18AWG
Wire Length	152.4mm (±10mm)
Strip Length	9.5mm (±1mm)

Label Example



Available Models

Variations available upon request

Part Number	Output Current (A)	Output Voltage Range (V)	Line/Load Registration	Maximum Efficiency	Max Output (W)
XEL-003CBU-V012XB-NNA01P	0.250	12	±5%	70%	3.0W
XEL-003CBU-V016XC-NNA01P	0.200	16	±5%	70%	3.2W

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 as 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	12 ~ 16 Vdc
	Rated Current Range	0.20 ~ 0.25 A (represents current programming range)
	Rated Power	3.2W
	Line Regulation ¹	±5%
	Load Regulation ¹	±5%
	Turn On/Off Time	< 500ms
Input	Voltage Range ²	120 ~ 277Vac Nominal (108 ~ 305Vac Operational)
	Frequency Range	47 ~ 63 Hz
	Power Factor	PFC > 0.65 at ≥ 75% of full power over nominal input range
	THD	THD < 20% at ≥ 75% of full power over nominal input range
Protection	Short Circuit	Auto Recovery
	Over Current	Auto Recovery
Environment	Working Temperature	-40°C ~ 65°C ambient (Hotspot rated for 90°C) ³
	Working Humidity	20% ~ 90% RH non-condensing
	UL Rating	Dry / Damp location use
	Storage Temperature	-40°C ~ 90°C ambient
	Storage Humidity	10% ~ 90% RH non-condensing
	Impact Resistance	1 g/s
	Vibration	3 ~ 50Hz 1g
	Operating Life	50,000 Hours at Full Load & 85°C case temperature
Safety & EMC	Safety Standards	UL8750, Class 2 (UL1310)
	Noise Rating	Class A
	EMI Conduction & Radiation	Compliant with FCC CFR Title 47 Part 15 Class B at 120~277Vac
	EMC Susceptibility	EN61000-4-5
	Transient Immunity	2kV/1kA Combination, 2.5kV Ringwave

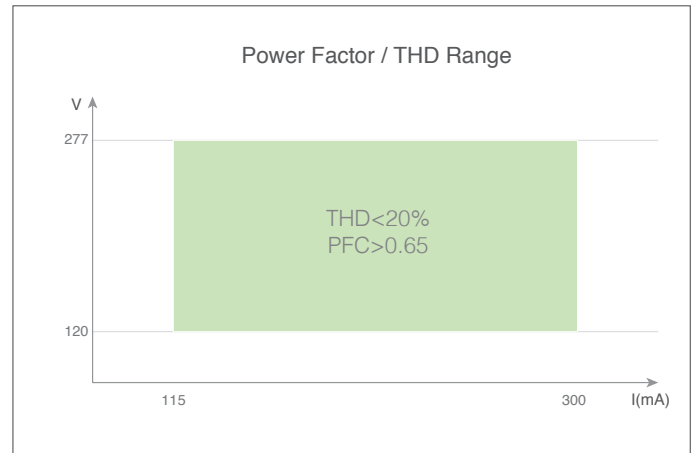
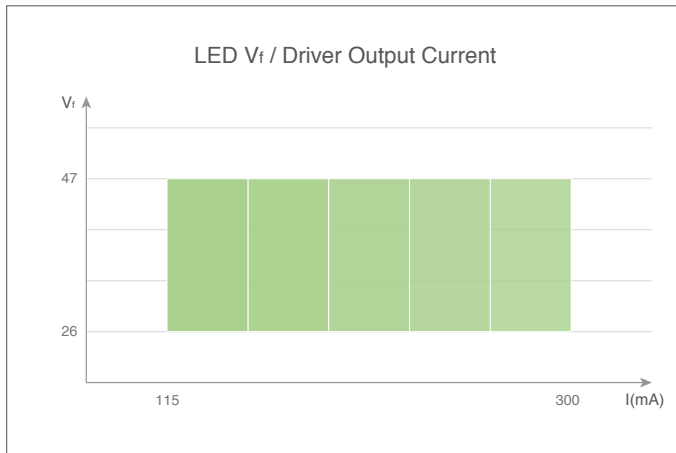
¹ Guaranteed only within nominal input range

² Critical parameters guaranteed over nominal input range

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

Operation Performance-Family

Constant Current Mode Operation



Installation Guide

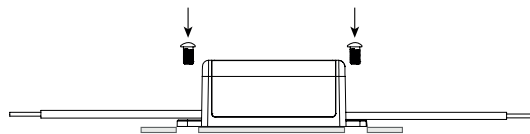
Wiring & Mounting Diagrams



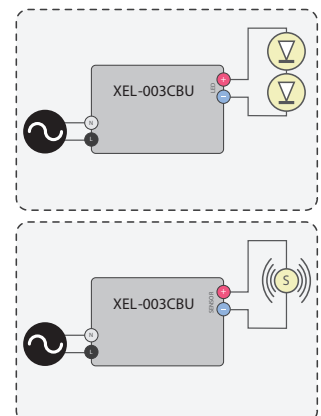
WARNING: TO REDUCE THE RISK OF FAILURE / INJURY:

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 for recommended mounting.



Wires	Colours	Type
Input	White (Neutral)	UL1015 AWG 18
	Black (Line)	UL1015 AWG 18
Output	Red (Positive)	UL1430 AWG 18
	Blue (Negative)	UL1430 AWG 18