Compact[™] CV Series

XEL-020C Constant Voltage Power Supply



20W Color Mixing / IoT / Industrial & Sensor / UV / Power

Nominal Input Voltage (Vin)	Family Output Power (W)	Output Voltage (Vout)	MAX Output Current (A)	Max Efficiency (%)	UL Max Case Temp. TC (°C)	THD (%)	Power Factor	Dimming Method	Dimming Range (% of lour)
120~277Vac	20W MAX	24Vdc	0.80A	84.2%	90°C	< 20%	> 0.9	N/A	N/A















- **Q** Supports Fast Load Changes
- **□** Ideal for Single Point UV Product
- **○** Supports High Peak Loads with Instantaneous Power Delivery
- ☐ Improves System Level EMI with High Load Transient Rejection
- **Description** Power Factor & THD Correction
- Stand-alone IoT & Sensor Power Supply
- **◯** Universal AC input (108~305Vac)
- **◯** Compact Size for Controls & Lighting Systems
- Q Turn on/off in less than 500 miliseconds
- Built-in Commercial grade Surge Protection
- Integrated open load, short circuit & temperature protection
- ☐ Turn on & Full power operation between -20°C to +55°C ambient (T_{case} rated for 90°C)
- XenerQi Industry Leading 5 Year Warranty²
- Q Class A Noise Rating
- Q Complies to FCC CFR Title 47 Part 15

See product specific data pages for details.

Typical Applications







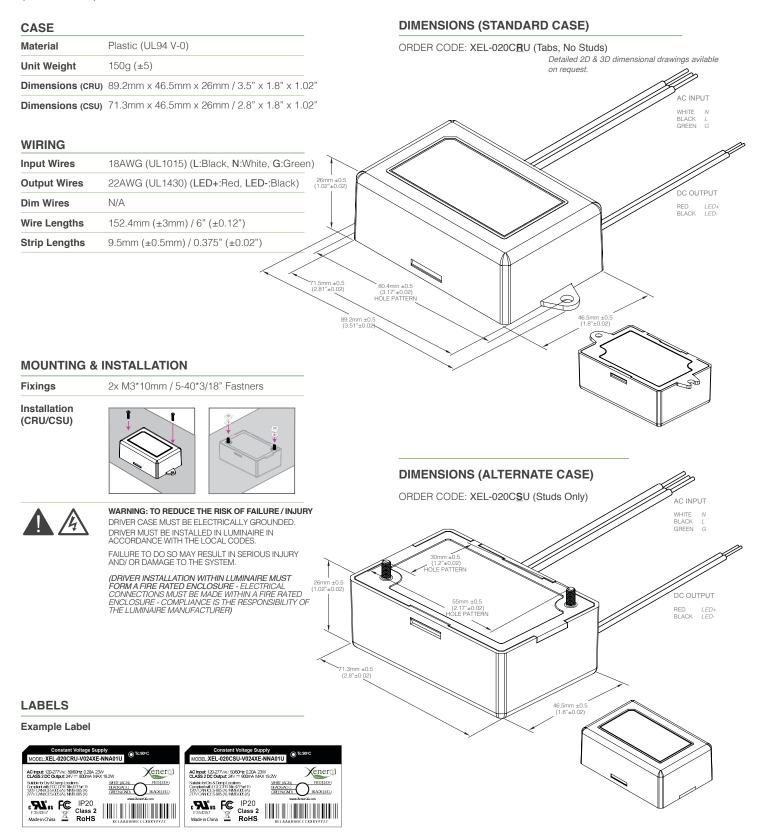
Pg. 01|06





Dimensions & Installation

(not to scale)



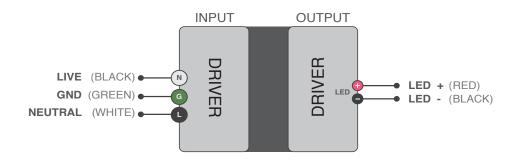
The information and specifications contained in this summary sheet are believed to be accurate and reliable at the time of publication, however Xenerqi Limited assumes no responsibility for damages caused due to potential errors. Also, Xenerqi Limited assumes no responsibility for the use of this product 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

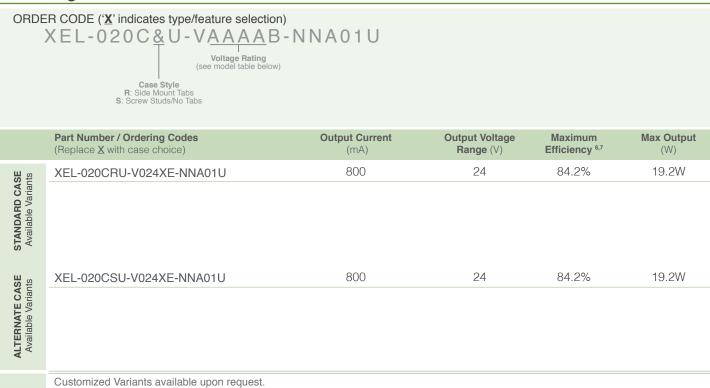
Output ³	Max Power Max Output Current Output Voltage Range Line Regulation ³ Load Regulation ³ Turn On/Off Time Stand-by Power	19.2W MAX (See Available Models for variant specific data) 0.80A 24Vdc ±5% ±5% 500ms (at full load) 0.4W
Input	Voltage Range ³ Max Input Power Frequency Range Power Factor THD Typical Inrush Current	120 ~ 277Vac Nominal (108 ~ 305Vac Operational) 23W 47 ~ 63 Hz PFC > 0.9 at ≥ at 500mA³ THD < 20% at ≥ at 500mA³ <75A @ 25°C, 120VAC (cold start with full load)
Protection	Short Circuit Over Load Over Temperature	TBC. NEMA 410 compliant 2.2A Unit shuts down & resets at hotspot greater than 90°C (shut down after reaching Tcritical)
Environment	Working Temperature Working Humidity UL Rating Storage Temperature Storage Humidity Vibration & Impact Resistance Operating Life	-20°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 @ 800mA (Tc < 75C)
Safety & EMC	Safety Standards Noise Rating EMI Conduction & Radiation EMC Susceptibility Transient Immunity	UL8750, Class 2 (UL1310) Class A (Less than 24dB measured at 1 meter) 3.6 Compliant with FCC CFR Title 47 Part 15 Class A CAN ICES (A) / NMB-005 (A) Compliant with European CE Requirements EN61000-4-3, EN61000-4-2, EN61000-4-4 2kV/1kA Combination, 2.5kV Ringwave Modes: L-N 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



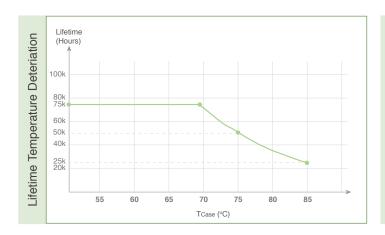
¹ Ambient is estimated. Actual temperatures determined by trigger point temperature at driver hotspot. Assumed case is correctly mounted on flat surface. ² Warranty refers to operation for conditions listed under "Operating Life". For specific warranty details refer to XenerQi published warranty document. ³ Parameters guaranteed only over nominal input range.

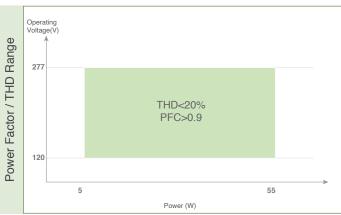
⁴ Shutdown requires power cycle to recover. ⁵ Tested under two conditions: with & without dimmer connected.

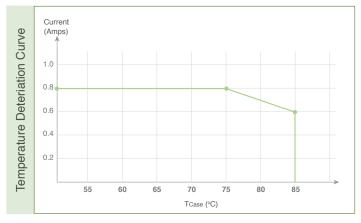
⁶ Value listed is family maximum or minimum best case value as appropriate & can vary depending on part number.

7 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.

Operation Performance-Family







XEL-020C Product Family

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