

“Skinny Series”



Product Highlights:

- Designed for LED lighting and signage applications
- Universal AC input (90~305Vac)
- Built-in active PFC provide PF>0.92 over entire input range
- Class 2 power supply
- Cooling by free air convection
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Fully enclosed plastic case
- Protections: Short circuit / Over voltage / Over Current / Over temperature
- Dimmable output with flexible architecture 2 wire dimming
 - DC Dimming (0-10V sourcing & sink input)
 - RD Dimming (100KΩ variable resistance)
 - PWM Dimming
- 5 year warranty

Compliance:

- Materials: RoHS Compliant
- Safety: UL8750, CE
- EMI: FCC Part 15/18 Class B and EN55015 Compliant
- IP66: Suitable for indoor or outdoor applications in dry, damp and wet locations
- Noise Rating: Class A

Orderable Part Numbers

Constant Current Variants

Part Number	Output Current (mA)	Output Voltage Range (V)	Load / Line Reg. ¹	Max. Effic.	Max. Output Power (W)
XEL-A096A-048-C2X00-Z	2000	24~ 48	±3%	90%	96
XEL-A096A-042-C2X25-Z	2250	21 ~ 42	±3%	89%	96
XEL-A096A-036-C2X60-Z	2600	18~ 36	±3%	88%	96
XEL-A096A-030-C3X20-Z	3200	15 ~ 30	±3%	88%	96
XEL-A096A-024-C4X00-Z	4000	12 ~ 24	±3%	88%	96
XEL-A096A-020-C4X80-Z	4800	10 ~ 20	±3%	88%	96
XEL-A096A-012-C6X00-Z	6000	7 ~ 12	±3%	88%	72

Constant Voltage Variants

Part Number	Output Voltage (V)	Max. Output Current (mA)	Load / Line Reg. ¹	Max. Effic.	Max. Output Power (W)
XEL-A096A-048-V2X00	48	2000	±3%	90%	96
XEL-A096A-042-V2X25	42	2250	±3%	89%	96
XEL-A096A-036-V2X60	36	2600	±3%	88%	96
XEL-A096A-030-V3X20	30	3200	±3%	88%	96
XEL-A096A-024-V4X00	24	4000	±3%	88%	96
XEL-A096A-020-V4X80	20	4800	±3%	88%	96
XEL-A096A-020-V6X00	12	6000	±3%	88%	72

Units with suffix -NA don't have dimming. If the variant you need is not listed, please contact Xenerqi (Sales@Xenerqi.com) and we can arrange for a customized solution

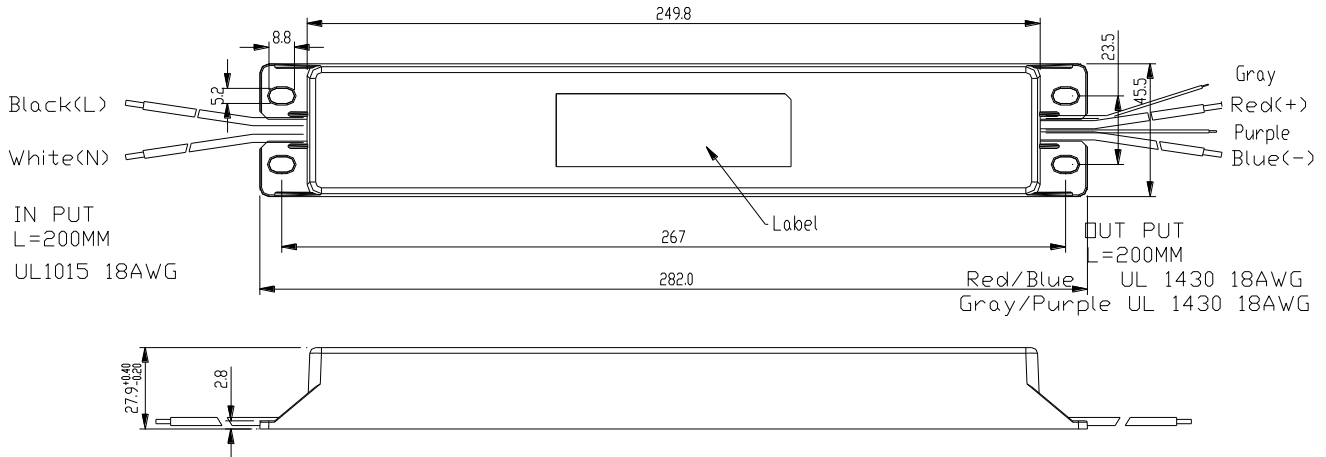
General Specification

SERIES	XEL-A096A		
OUTPUT	DCVOLTAGE RANGE	7 ~ 48Vdc (see orderable parts table for details)	
	RATED CURRENT RANGE	2.0 ~ 6.0A (see orderable parts table for details)	
	RATED POWER	up to 96W	
	REGULATION (Load Life) ¹	±3%	
	TURN ON TIME	< 1s	
INPUT	VOLTAGE RANGE	90 ~ 305Vac	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	PF ≥ 92% at full load	
	EFFICIENCY (Typ.)	84 ~ 90% at full load	
	AC CURRENT	1.6A max at 100Vac 0.8A max at 277Vac	
	INRUSH CURRENT (Typ.)	<100A @ 25°C, 230Vac cold start	
	LEAKAGE CURRENT	<0.75mA / 277VAC	
	THD (TOTAL HARMONIC DIST.)	< 20%	
DIMMING	MODES	DC Dimming Control: 0-10 Vdc RD Dimming Control: 100KΩ variable resistance dimming PWM Dimming Adjustable Control Input: Duty 0%-100% (PWM frequency 200HZ-1KHZ, 10-24V Range)	
	PROTECTION	SHORT CIRCUIT	Hiccup mode protection. Recovers automatically after fault condition is removed
		OVER VOLTAGE	< 30% above the maximum output voltage listed for the specific part number
OVER CURRENT		< 10% above the maximum output current listed for the specific part number	
OVER TEMPERATURE		Unit automatically dims to 10% when the temperature is >85°C	
ENVIRONMENT	WORKING TEMPERATURE	-30°C ~ + 60°C at Full Load	
	WORKING HUMIDITY	5% ~ 95% RH non-condensing (suitable for DRY and DAMP locations)	
	STORAGE TEMPERATURE	-40°C ~ + 85°C	
	STORAGE HUMIDITY	5% ~ 95% RH non-condensing	
	VIBRATION	1 g/s	

SAFETY & EMC	SAFETY STANDARDS	UL8750, UL1310, UL48 CSA22.2, CE, TUV, KAMA, CQC, FCC,
	EMI CONDUCTION & RADIATION	Compliance to CISPR 22 CLASS B, CISPR 14-1 CLASS B, GB4343.1-2003, GB17625.1-2003, GB4343-2003+A1, CISPR 14-1:1997, EN55014-1:1997-5, EN55012-1:1997-6
	HARMONIC CURRENT	Compliance to GB4343-2003+A1, CISPR 14-1:EN61000-3-2:1995
	EMS IMMUNITY	Compliance to GB/T13926.3, IEC61000-4-3 & 4-4, PrEN55014-2 Section 6.2 & 6.5, IEC61000-4-11.
	TRANSIENT SUPPRESSION	2.5kV (100kHz ring wave at 2.5kV common mode and differential)
OTHERS	LIFETIME	50,000 hours at up to 60C

Note 1: Load Regulation includes line regulation, load regulation and set-up tolerance
 Note 2: All specifications not specifically mentioned are measured at 230Vac and 25°C ambient temperature

Mechanical Details



Drawing not to scale

Wires	Colors	Type
Input	White (Neutral)	UL1015
	Black (Line)	AWG18
Output	Red (Positive)	UL1015
	Black (Ground)	AWG18
Dimming (optional)	Gray (0-10V Input/ PWM Input -)	UL1015
	Purple (0-10V Input/ PWM Input+)	AWG20

Case	
Material	Black/White PC ABS Plastic
Unit Weight	560g
Dimensions	282mm (L) x 45.5mm (W) x 28mm (H)

**For more detailed information about this product
 please contact Xenerqi (Sales@xenerqi.com)**

Xenerqi Limited

Email: Sales@Xenerqi.com

Website : www.xenerqi.com

Phone: +1 (704) 746-9246

+ (852) 3050-9292

+ (65) 6494-8832

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 way that it infringes on patents or other rights of third parties. No license is granted by implication or otherwise under any patent or patent rights of Xenerqi Limited. Specifications are subject to change without notice. It is up to the end user to ensure they have the latest revision of the published specification.