

Product Highlights:

- Designed for LED General Lighting Applications
- Universal AC input (108~305Vac)
- Built-in active PFC provide PF>0.90 over entire input range
- Instant Response (< 0.5s Turn on/off time with soft start)
- Built-in Transient Suppression up to 2.5kV
- Class 2 power supply
- Protections: Short Circuit / Over Voltage / Over Current / Over Temperature
- Dimmable output with flexible architecture
 - DC Dimming (0-10V) (2 wire dimming input)
 - Dimming supports majority of available dimming solutions
 - Wide dimming range from 8% to 100%
- 5 year warranty



Compliance:

- Safety: UL8750, cUL, CE
- EMI: FCC Part 15 /18 Class a and EN55015 Compliant
- Materials: RoHS Compliant
- Noise Rating: Class A



Orderable Part Numbers

The part numbers below represent the most common variants for this product but do NOT represent all variants available. If you have a specific Current or Voltage requirement for the target application, please confirm with the EHWZ sales team (sales@ehwz.com) the exact orderable part number to use. At EHWZ, we are able to accommodate most Current and Voltage combination requests. So don't hesitate to ask about a unit that best suits the application.

Constant Current Variants

Part Number	Output Current (mA)	Output Voltage Range Max (V)	Line/Load Reg.	Max. Effic.	Max. Output Power (W)
XEL-A096B-024-C4X00-Z	4000	16 ~ 24	±5%	90%	96
XEL-A096B-024-C3X50-Z	3500	16 ~ 24	±5%	90%	96
XEL-A096B-042-C2X50-Z	2500	28 ~ 38	±5%	90%	96
XEL-A096B-042-C2X20-Z	2200	30 ~ 43.5	±5%	90%	96
XEL-A096B-054-C2X00-Z	2000	38 ~ 48	±5%	90%	96
XEL-A096B-054-C1X75-Z	1750	45 ~ 54.5	±5%	90%	96

Constant Voltage Variants

Part Number	Output Voltage (V)	Max Output Current Max (mA)	Line/Load Reg.	Max. Effic.	Max. Output Power (W)
XEL-A096B-024-V4X00	24	4000	±5%	90%	96
XEL-A096B-042-V3X50	24	3500	±5%	90%	84
XEL-A096B-042-V2X50	38	2500	±5%	90%	96
XEL-A096B-042-V2X20	43.5	2200	±5%	90%	96
XEL-A096B-054-V2X00	48	2000	±5%	90%	96
XEL-A096B-054-V1X75	54.5	1750	±5%	90%	96

- For Constant Current Units, the -Z at the end of the part number means the unit has 0-10V Dimming. For Non-Dimmable units replace the -Z with a -N when ordering. variant.
- cUL is only applicable to units with output voltage below 60Vdc.

General Specification

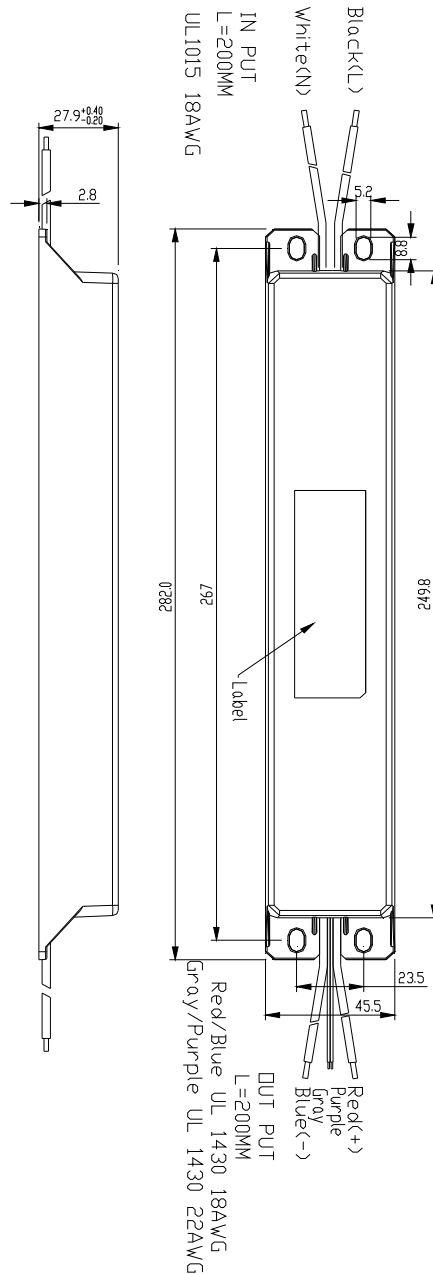
SERIES		XEL-A096B
OUTPUT	DC VOLTAGE RANGE	16 ~ 54.5Vdc (see orderable parts table for details)
	RATED CURRENT RANGE	1.50A ~ 4.00A (see orderable parts table for details)
	RATED POWER	up to 96W
	LOAD REGULATION ¹	±5%
	TURN ON/OFF TIME	Turn on < 500ms over full input voltage range, Turn off < 200ms under any dimming condition
INPUT	VOLTAGE RANGE	108 ~ 305Vac
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF > 0.9 at 80% of load when input range is 120 ~ 277 Vac
	EFFICIENCY (Typ.)	≥ 90 % at 80% of load when input range is 120 ~ 277 Vac
	AC CURRENT (Typ.)	1.5A @ 120Vac and 0.75A @ 277Vac
	INRUSH CURRENT (Typ.)	< 50A @ 25°C, 120Vac or < 60A @ 25°C, 277Vac cold start with full load
	LEAKAGE CURRENT	< 250µA @ 120Vac
DIMMING	THD (TOTAL HARMONIC DIST.)	< 20%
	MODES (For Constant Current models)	DC Dimming Control 0-10Vdc Wide dimming range from 8% up to 100% Dimming over entire input voltage range. Unit capable of interfacing with either sourcing or sinking dimmers
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 turns off when Tc > 85°C
ENVIRONMENT	WORKING TEMPERATURE	-40°C ~ + 70°C at Full Load (Tcase rated for 85C)
	WORKING HUMIDITY	5% ~ 95% RH non-condensing
	STORAGE TEMPERATURE	-40°C ~ + 85°C
	STORAGE HUMIDITY	5% ~ 95% RH non-condensing
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 30min. each along X, Y, Z axes

SAFETY & EMC	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.0-08 EN61347-1, EN61347-2-13 independent, Design refer to UL60950-1, EN60950-1 Compliant, CE
	EMI CONDUCTION & RADIATION	Compliance to EN55015 Class A, FCC 47CFR Part 15 Class
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level, criteria A
	TRANSIENT SUPPRESSION	2kV (100kHz ring wave at 2kV common mode and differential)
OTHERS	LIFETIME	50,000 hours at case temperature ≤ 85C

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

Terminals	Colors
Input	White (Neutral)
	Black (Line)
Output	
Dimming (CC only)	Purple (Dim +)
	Gray (Dim -)

Case	
Material	Metal
Unit Weight	
Dimensions	282mm (L) x 45.5mm (W) x 28mm (H)

For more detailed information about this product please contact EHWZ (sales@ehwz.com)

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