

“Skinny Series”



Product Highlights:

- Designed for LED lighting applications
- Ideal for under Cabinet application and tight spaces
- Universal AC input (108~305Vac)
- Built-in active PFC provide PF>0.90 over entire input range
- Class II power supply
- Plastic case (UL94-V0) cooled by air convection
 - Case mounting holes on two sides
 - Available in Black (standard) or White
- Protections:
 - Short circuit / Over voltage / Over Current
 - Over temperature / 5VA Rated Case
- Dimmable output with flexible architecture
 - DC Dimming (0-10V)(2 wire dimming control)
 - RD Dimming (2-wire dimming input)
 - Supports majority of available dimming solutions

Compliance:

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

Orderable Part Numbers

Constant Current Variants

Part Number	Output Current (mA)	Output Voltage Range (V)	Line/Load Reg. ¹	Max. Effic.	Max. Output Power (W)	Dimmable
XEL-A028A-080-CX350-Z	350	60 ~ 80	±5%	85%	28.0	✓
XEL-A028A-068-CX400-Z	400	45 ~ 68	±5%	85%	28.0	✓
XEL-A028A-060-CX450-Z	450	40 ~ 60	±5%	85%	28.0	✓
XEL-A028A-040-CX700-Z	700	25 ~ 40	±5%	85%	28.3	✓
XEL-A028A-026-C1X05-Z	1050	20 ~ 26	±5%	85%	27.3	✓
XEL-A028A-020-C1X40-Z	1400	14 ~ 20	±5%	85%	28.0	✓
XEL-A028A-017-C1X66-Z	1660	9 ~ 17	±5%	85%	28.2	✓
XEL-A028A-014-C2X00-Z	2000	9 ~ 14	±5%	85%	28.0	✓

-N instead of -Z at the end of the part number means non dimmable variant. If the variant you need is not listed, please contact Xenerqi (Sales@Xenerqi.com) and we can arrange for a customized solution

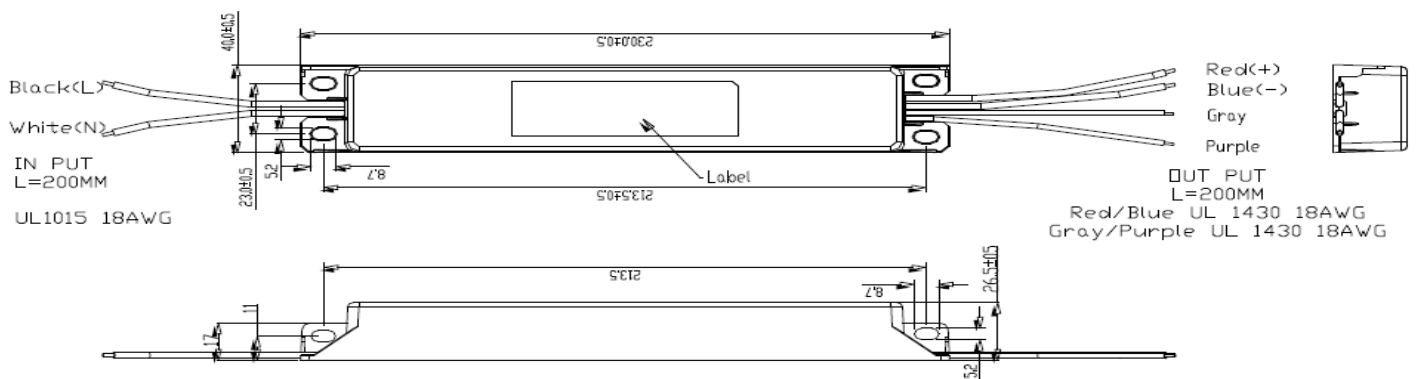
General Specification

SERIES	XEL-A028A	
OUTPUT	DC VOLTAGE RANGE	9 ~ 80Vdc (see orderable parts table for details)
	RATED CURRENT RANGE	350mA ~ 2A (see orderable parts table for details)
	RATED POWER	up to 28W
	LINE/LOAD REGULATION ¹	±5%
	TURN ON TIME	< 1s
INPUT	VOLTAGE RANGE	108 ~ 305VAC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF ≥ 90% at full load
	EFFICIENCY (Typ.)	≥ 85 % at full load
	AC CURRENT	0.5A @ 120VAC and 0.25 @ 277VAC
	INRUSH CURRENT (Typ.)	< 50A @ 25°C, 120VAC or <60A @ 25°C, 277VAC cold start with full load
	LEAKAGE CURRENT	< 250µA @ 120V
	THD (TOTAL HARMONIC DIST.)	< 20%
DIMMING	MODES	DC Dimming Control 0-10Vdc Wide dimming range from 5% up to 100% Dimming over entire input voltage 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 turns off when Tc > 90°C (±5°C)
ENVIRONMENT	WORKING TEMP.	-20°C ~ + 50°C at Full Load (Tcase rated for 90°C)
	WORKING HUMIDITY	20% ~ 90% RH non-condensing
	STORAGE TEMP.	-40°C ~ + 85°C
	STORAGE HUMIDITY	5% ~ 95% RH non-condensing
	VIBRATION	5 ~ 500Hz, 5G 12min/1cycle, period for 30 minutes each along X, Y, Z axes

SAFETY & EMC	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.0-08 (except for 42V,),EN61347-1, EN61347-2-13 independent, IP66 approved ; Design refer to UL60950-1, TUV EN60950-1
	EMI CONDUCTION & RADIATION	Compliance to EN55015 Class A, FCC 47CFR Part 15 Class A
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, Lighting Industry Surge Level(2.5KV), criteria A
OTHERS	LIFETIME	50,000 hour at full load and 50°C.

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)	UL1430
	Blue (Ground)	AWG18
Dimming (Optional)	Purple (Dim +)	UL1430
	Gray (Dim -)	AWG18

Case	
Material	Black/White PC/PPO (5VA)
Unit Weight	400g
Dimensions	230.0mm (L) x 40.0mm (W) x 26.5mm (H)

**For more detailed information about this product
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