

Product Highlights:

- Designed for LED lighting and signage applications
- Ideal for Down Light and Recessed Lighting application
- Universal AC input (108~305Vac)
- Built-in active PFC provide PF>0.90 over entire input range
- Class II power supply
- Plastic case (94-V0) cooled by air convection
- Protections: Short circuit / Over voltage / Over Current / Over temperature
- Triac and transistor dimmer support
 - Dimming at 120Vac
 - No visible flicker
 - Support majority of available dimming solutions
 - Wide dimming range from 5% up to 100%
- 5 year warranty



Compliance:

- Safety: UL8750, Class 2 (UL1310)
- EMI: FCC Part 15 Class B
- IP66 - Suitable for indoor or outdoor applications in dry, damp and wet locations
- Materials: RoHS Compliant
- Class A Noise Rating

Orderable Part Number

Constant Current Variants

Part Number	Output Current (mA)	Output Voltage Range (V)	Line/Load Reg.	Max. Effic.	Max. Output Power (W)	Dimmable
XEL-A020A-025-C1X25-T	1.25	9 ~ 18	±5%	80%	18W	✓
XEL-A020A-025-C1X00-T	1.00	12 ~ 20	±5%	82%	18W	✓
XEL-A020A-042-CX700-T	0.70	18 ~ 28	±5%	82%	18W	✓
XEL-A020A-042-CX500-T	0.50	30 ~ 42	±5%	82%	18W	✓
XEL-A020A-052-CX045-T	0.45	42 ~ 50	±5%	83%	18W	✓
XEL-A020A-052-CX035-T	0.35	42 ~ 52	±5%	83%	18W	✓

For non dimming version replace -T with -N at end of part number

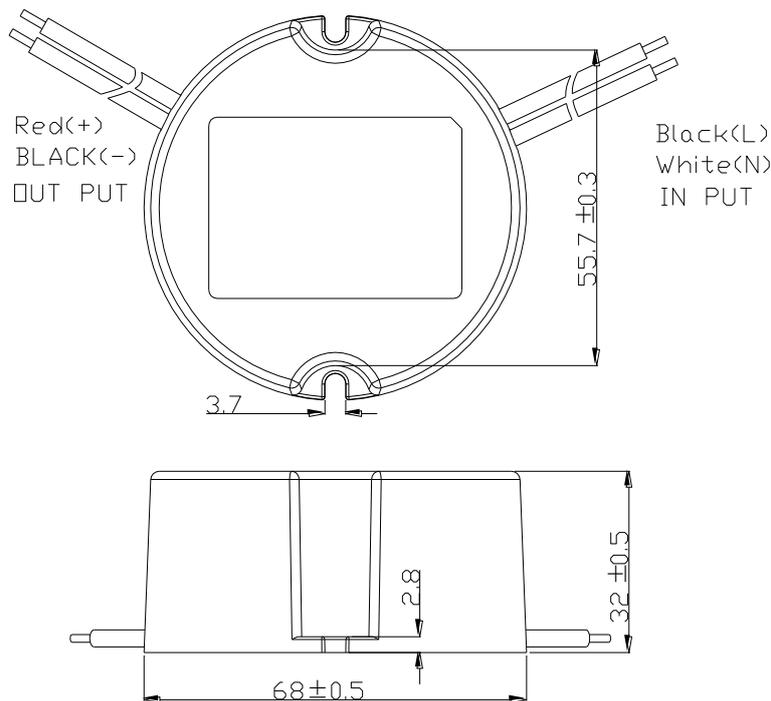
General Specification

SERIES		XEL-A020A
OUTPUT	DC VOLTAGE RANGE	9 ~ 52 Vdc (see orderable parts table for details)
	RATED CURRENT RANGE	0.35~1.25 A
	RATED POWER	up to 18 W
	LINE/LOAD REGULATION ¹	±5%
	TURN ON TIME	< 800ms
INPUT	VOLTAGE RANGE	108 ~ 305Vac
	FREQUENCY RANGE	50 ~ 60Hz
	POWER FACTOR (Typ.)	PF≥ 90% at full load
	EFFICIENCY (Typ.)	≥ 80 % at full load
	AC CURRENT	0.30A @ 120Vac and 0.15 max @ 277Vac
	INRUSH CURRENT Typ.)	< 8A @ 25°C, 120VAV cold start with full load
	LEAKAGE CURRENT	< 250µA @ 120Vac 60Hz
THD (TOTAL HARMONIC DIST.)	< 20%	
DIMMING	MODES	Triac and transistor dimmer support Wide dimming range from 5% up to 100% Dimming at 120Vac / No dimming at 277Vac
PROTECTION	SHORT CIRCUIT	Hiccup mode protection. Recovers automatically after fault condition is removed
	OVER VOLTAGE	< 30% above the maximum output voltage listed
	OVER CURRENT	< 10% above the maximum output current listed for the specific part number
	OVER TEMPERATURE	Unit dims to 10% of maximum output current when Tc > 90°C (±5%)
ENVIRONMENT	WORKING TEMP.	-40°C ~ + 70°C at Full Load
	WORKING HUMIDITY	20% ~ 90% RH non-condensing
	STORAGE TEMP.	-40°C ~ + 85°C
	STORAGE HUMIDITY	10% ~ 90% RH non-condensing
	IMPACT RESISTANCE	1 g/s
VIBRATION	5~500Hz 5g 12 min/1 cycle period for 30 min each along x, y, z axis	

SAFETY & EMC	SAFETY STANDARDS	UL8750, Class 2 (UL1310) CE, FCC, IP66 Compliant
	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 70°C ambient temperature

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
	Black (Ground)	AWG18

Case	
Material	Black/White PC Plastic (94-V0)
Unit Weight	200g
Dimensions	68mm (D) x 32.0mm (H)

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

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