

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
- Turn on time < 1 second with soft start
- Class II power supply
- Industry standard metal case cooled by air convection
 - Available in White
- Protections: Short Circuit / Over Voltage / Over Current / Over Temperature
- Dimmable output with flexible architecture
 - DC Dimming (0-10V) (2 wire dimming input)
 - RD Dimming (2-wire dimming input)
 - Dimming support majority of available dimming solutions
 - Wide dimming range from 6% to 100%
- 5 year warranty



Compliance:

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

Orderable Part Numbers

Constant Current Variants

Part Number	Output Current (mA)	Output Voltage Range Max (V)	Line/ Load Reg.	Max. Effic.	Max. Output Power (W)
XEL-A075A-024-C3X30-Z	3300	12 ~ 24	±5%	87%	75
XEL-A075A-042-C2X00-Z	2000	24 ~ 37.5	±5%	88%	75
XEL-A075A-042-C1X75-Z	1750	30 ~42	±5%	88%	75
XEL-A075A-050-C1X50-Z	1500	42 ~ 50	±5%	88%	75
XEL-A075A-050-C2X08-Z	1400	45 ~ 53.5	±5%	88%	75

Constant Voltage Variants

Part Number	Output Voltage (V)	Max Output Current Max (mA)	Line/ Load Reg.	Max. Effic.	Max. Output Power (W)
XEL-A075A-024-V3X13	24	3130	±5%	87%	75
XEL-A075A-042-V2X10	36	2100	±5%	88%	75
XEL-A075A-042-V1X78	42	1780	±5%	88%	75
XEL-A075A-050-V1X55	48	1550	±5%	88%	75
XEL-A075A-050-V1X40	53.5	1400	±5%	88%	75

For Constant Current units a -Z at the end of the part number means 0-10V dimming and a -N 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. cUL is only applicable to units with output voltage below 42V.

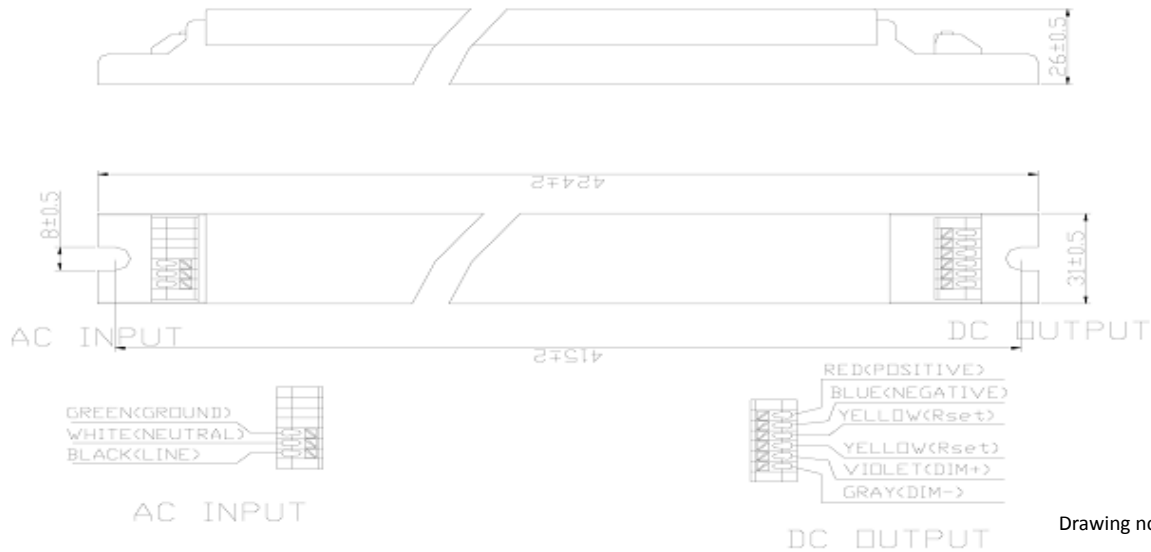
General Specification

SERIES	XEL-A075A	
OUTPUT	DCVOLTAGE RANGE	12 ~ 53.5V (see orderable parts table for details)
	RATED CURRENT RANGE	1.00A ~ 3.30A (see orderable parts table for details)
	RATED POWER	up to 75W
	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 (For Constant Current models)	DC Dimming Control 0-10Vdc Wide dimming range from 6% 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	-20°C ~ + 50°C at Full Load
	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 (except for 42V-54V,), EN61347-1, EN61347-2-13 independent, IP66 approved ; Design refer to UL60950-1, TUV EN60950-1 Compliant
	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 (surge 2KV), criteria A
OTHERS	LIFETIME	50,000 hours at up to 50C

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	Red (Positive)
	Blue (Ground)
Dimming (CC only)	Purple (Dim +)
	Gray (Dim -)

Case	
Material	Metal
Unit Weight	430 gms
Dimensions	415mm (L) x 31mm (W) x 26mm (H)

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

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