

Product Highlights:

- Designed for LED lighting applications
- Constant Voltage and Constant Current output versions
- Universal AC input (90~305Vac)
- Built-in active PFC provide PF>0.90 over entire input range
- Turn on time < 1 second with soft start
- Class I power supply
- Aluminum case cooled by air convection
- Protections: Short circuit / Over voltage / Over Current / Over temperature
- Dimmable output with flexible architecture
 - DC Dimming (0-10V) (2 wire dimming input)
 - PWM Dimming (2-wire dimming input)
 - Supports majority of available dimming solutions
- 5 year warranty



Compliance:

- Materials: RoHS Compliant
- Safety: UL8750, cUL, CE, TUV
- IP67: Suitable for indoor or outdoor applications in dry, damp and wet locations
- EMI: FCC Part 15 /18 Class a and EN55015 Compliant

Orderable Part Numbers

Constant Current Variants

Part Number	Output Current (mA)	Output Voltage Range (V)	Load Reg. ¹	Max. Effic.	Max. Output Power (W)
XEL-A150A-C2X80	2800	38 ~ 54	±5%	90%	151.2
XEL-A150A-C3X20	3200	33 ~ 48	±5%	90%	153.6
XEL-A150A-C4X20	4200	26 ~ 36	±5%	90%	151.2
XEL-A150A-C5X00	5000	22 ~ 30	±5%	90%	150.0
XEL-A150A-C6X30	6300	14 ~ 24	±5%	90%	151.2
XEL-A150A-C10X0	10000	11 ~ 15	±5%	88%	150.0
XEL-A150A-C11X0	11000	9 ~ 12	±5%	88%	132.0

-Z at the end of the part number means dimmable variant

Constant Voltage Variants

Part Number	Output Voltage (V)	Max. Output Current (A)	Load Reg. ¹	Max. Effic.	Max. Output Power (W)
XEL-A150A-V012	12	11	±5%	88%	132.0
XEL-A150A-V015	15	10	±5%	88%	150.0
XEL-A150A-V024	24	6.3	±5%	90%	151.2
XEL-A150A-V030	30	5	±5%	90%	150.0
XEL-A150A-V036	36	4.2	±5%	90%	151.2
XEL-A150A-V048	48	3.2	±5%	90%	153.6
XEL-A150A-V054	54	2.8	±5%	90%	151.2

If the variant you need is not listed, please contact Xenerqi (Sales@Xenerqi.com) and we can arrange for a customized solution

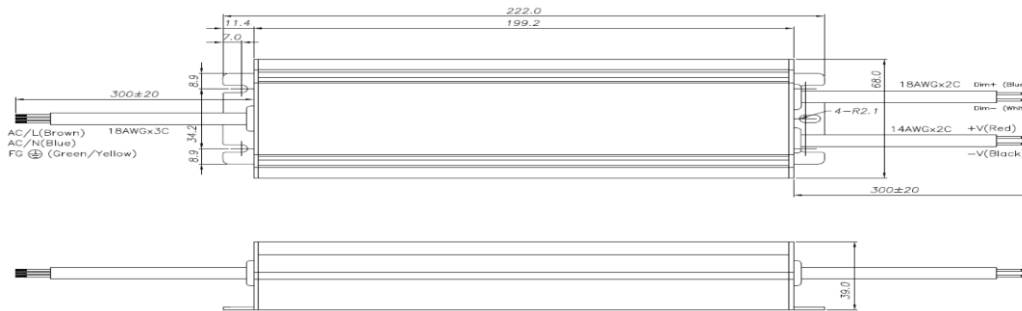
General Specification

SERIES		XEL-A150A
OUTPUT	DC VOLTAGE RANGE	12 ~ 54Vdc (see orderable parts table for details)
	RATED CURRENT RANGE	2.8A ~ 11A (see orderable parts table for details)
	RATED POWER	up to 151.2W
	LOAD REGULATION ¹	±5%
	TURN ON TIME	< 1s at full load
INPUT	VOLTAGE RANGE	100 ~ 277Vac
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF ≥ 90% at full load
	EFFICIENCY (Typ.)	≥ 88 % at full load (see orderable parts table for details)
	AC CURRENT	2A @ 115Vac and 1A @ 230Vac
	INRUSH CURRENT (Typ.)	≤ 65A @ 230Vac cold start with full load
	LEAKAGE CURRENT	≤ 0.5mA @ 240Vac
	THD (TOTAL HARMONIC DIST.)	< 25%
DIMMING	MODES	DC Dimming Control 0-10Vdc PWM Dimming Control Wide dimming range from 10% 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. Latch mode – unit needs to be power cycled to recover
	OVER CURRENT	< 10% above the maximum output current listed for the specific part number the unit limits the current. Unit auto recovers after fault is removed
	OVER TEMPERATURE	Unit turns off when Tc > 90°C. Shuts down – unit needs to be power cycled to recover
ENVIRONMENT	WORKING TEMPERATURE	-30°C ~ + 70°C at Full Load
	WORKING HUMIDITY	20% ~ 90% RH non-condensing
	STORAGE TEMPERATURE	-40°C ~ + 80°C
	STORAGE HUMIDITY	10% ~ 90% RH non-condensing
	VIBRATION	10 ~ 500Hz, 2G 10min/1 cycle period for 60 minutes along each axis (X, Y, Z)

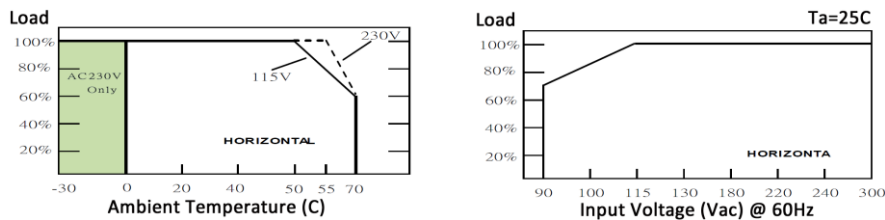
SAFETY & EMC	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.0-08 (except for 15V-54V,), EN61347-1, EN61347-2-13 independent, IP67 approved ; TUV EN60950-1 Compliant
	EMI CONDUCTION & RADIATION	Compliance to EN55015 Class A, FCC 47CFR Part 15 Class
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class C
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, Light Industry Level (surge 4KV), criteria A
OTHERS	LIFETIME	> 50,000 hours

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

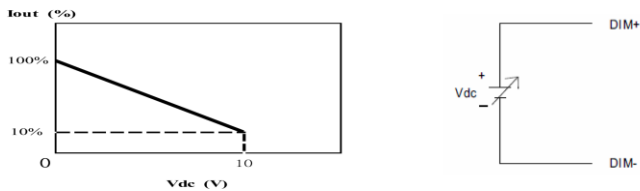


Derating Curve



Dimming (Optional)

Voltage Dimming Curve



PWM Dimming Curve



Note: If there is a need to control two or more drivers simultaneously, a potentiometer solution will be required

Wires	Colors	Type
Input	Blue (Neutral)	AWG18
	Brown (Line)	
	Green/Yellow (Ground)	
Output	Red (V+)	AWG18
	Black (V-)	
Dimming (CC only)	Blue (Dim +)	AWG14
	White (Dim -)	

Case		Drawing not to scale
Material	Aluminum	
Unit Weight	940g	
Dimensions	222mm (L) x 68mm (W) x 39mm (H)	

For more detailed information about this product Xenerqi can provide a full datasheet upon request

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