



**Product Highlights:**

- Designed for LED lighting applications requiring high voltage
- Constant Voltage and Constant Current output versions
- Universal AC input (90~305Vac)
- Built-in active PFC provide PF>0.90 ~ 0.98 over entire input range
- Turn on time < 3 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 (1-10V) (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 Class B and EN55015 Compliant

**Orderable Part Numbers**

**Constant Current Variants**

Part Number	Output Current (mA)	Output Voltage Range (V)	Load Reg. <sup>1</sup>	Max. Effic.	Max. Output Power (W)
XEL-A150H-C1X40	1400	60 ~ 107	±5%	93%	150
XEL-A150H-C1X05	1050	60 ~ 142	±5%	93%	142
XEL-A150H-C0X70	700	60 ~ 210	±5%	93%	147
XEL-A150H-C0X30	350	200 ~ 425	±5%	93%	148

**Constant Voltage Variants**

Part Number	Output Voltage (V)	Max. Output Current (A)	Load Reg. <sup>1</sup>	Max. Effic.	Max. Output Power (W)
XEL-A150H-V107	107	140	±5%	93%	150
XEL-A150H-V142	142	105	±5%	93%	142
XEL-A150H-V210	210	70	±5%	93%	147
XEL-A150H-V425	425	35	±5%	93%	148

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

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

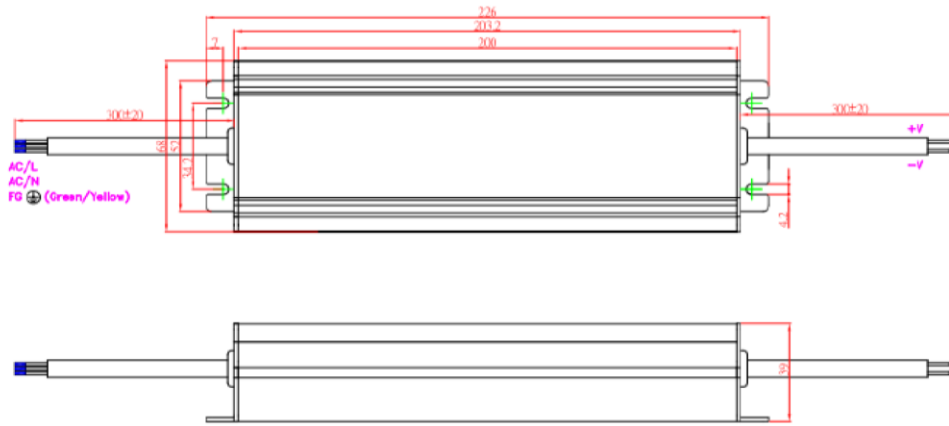
**General Specification**

SERIES	XEL-A150H	
OUTPUT	DC VOLTAGE RANGE	60 ~ 425Vdc (see orderable parts table for details)
	RATED CURRENT RANGE	350mA ~ 1400mA (see orderable parts table for details)
	RATED POWER	up to 150W
	LOAD REGULATION <sup>1</sup>	±5%
	TURN ON TIME	< 3s at full load
INPUT	VOLTAGE RANGE	90 ~ 305Vac
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF ≥ 0.98 at 120Vac and ≥ 0.94 at 240Vac at full load
	EFFICIENCY (Typ.)	≥ 93 % at full load (see orderable parts table for details)
	AC CURRENT	2A @ 120Vac and 1A @ 240Vac
	INRUSH CURRENT (Typ.)	≤ 65A @ 240Vac cold start with full load
	LEAKAGE CURRENT	≤ 0.75mA @ 230Vac
	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	Shut down mode protection. Unit needs to be power cycled to recover
	OVER VOLTAGE	< 40% above the maximum output voltage listed for the specific part number. Supply will shut down. Unit needs to be power cycled to recover
	OVER CURRENT	< 5% above the maximum output current listed for the specific part number unit constraints 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 ~ + 55°C at full Load
	WORKING HUMIDITY	20% ~ 90% RH non-condensing
	STORAGE TEMPERATURE	-40°C ~ + 80°C
	STORAGE HUMIDITY	10% ~ 95% RH non-condensing
	VIBRATION	10 ~ 500Hz, 2G 10min/1 cycle period for 60 minutes along each axis ( X, Y, Z)

<b>SAFETY &amp; EMC</b>	SAFETY STANDARDS	UL8750, EN61347-1, EN61347-2-13 independent, IP67 approved
	EMI CONDUCTION & RADIATION	Compliance to EN55015 Class B, 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
<b>OTHERS</b>	LIFETIME	> 50,000 hours

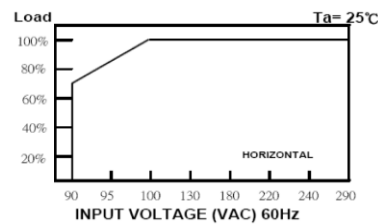
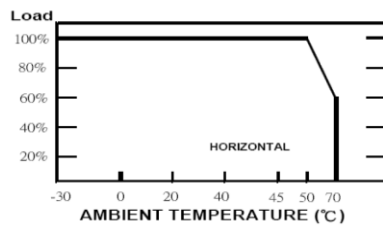
Note 1: Load Regulation includes line regulation, load regulation and set-up tolerance  
 Note 2: All specifications not specifically mentioned are measured at 230Vac and 25°C ambient temperature

**Mechanical Detail.**

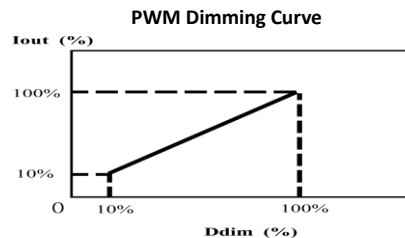
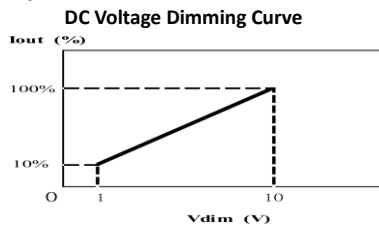


Drawing not to scale

**Derating Curve**



**Dimming (Optional)**



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

Pulse: Hi = 10V, Low = 0V  
 Frequency: 500 ~ 3KHz

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

Case	
<b>Material</b>	Aluminum
<b>Unit Weight</b>	1.1 Kg (including corrugated carton box)
<b>Dimensions</b>	226mm (L) x 68mm (W) x 39mm (H)

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

**Xenerqi Limited**

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