

**Product Highlights:**

- Designed for LED lighting applications
- Universal AC input (100~305Vac)
- Built-in active PFC provide  $PF \geq 0.90$ ,  $THD \geq 20\%$ , over entire input range
- Class 2 power supply (note model details)
- Plastic case cooled by air convection
- Protections: Short circuit / Over voltage / Over Current / Over temperature
- Dimmable output with flexible architecture
  - DC Dimming (0-10V) (Electrically isolated 0-10V dimming input)
  - Phase cut dimming (Triac, ELV, etc.)
- 5 year warranty (Long life at high ambient temperatures)

**Orderable Part Numbers****Constant Current Variants**

Part Number	Output Current (mA)	Output Voltage Range (V)	Load Reg.	Max. Eff.	Max. Output Power (W)
XEL-A030D-024-C1X25	1250	16 ~ 24	±5%	TBD	30
XEL-A030D-042-C0X90	900	20 ~ 33	±5%	TBD	30
XEL-A030D-042-C0X70	700	25 ~ 38	±5%	TBD	27
XEL-A030D-042-C0X60	600	30 ~ 42	±5%	TBD	26
XEL-A030D-056-C0X54	540	36 ~ 48	±5%	TBD	26
XEL-A030D-056-C0X45	450	40 ~ 56	±5%	TBD	25
XEL-A030D-056-C0X315	315	40 ~ 56	±5%	TBD	18

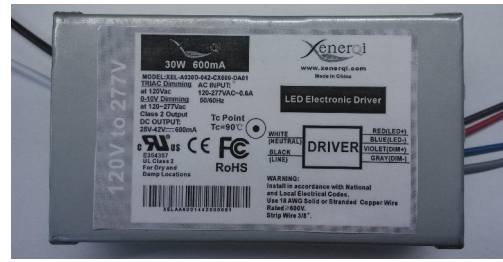
For dimmable units add a -ZA suffix to the part numbers above

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

Units with output voltage >42V are not cUL compliant at the driver level but may qualify for fixture level compliance

**General Specification**

SERIES	XEL-A030D	
OUTPUT	DC VOLTAGE RANGE	16~56Vdc (see orderable parts table for details)
	RATED CURRENT RANGE	315mA ~ 1400mA (see orderable parts table for details)
	RATED POWER	up to 30W
	LOAD REGULATION <sup>1</sup>	±5%
	TURN ON TIME	10% < 500ms; 30% < 1s; 50% < 2s; 100% < 5s;
INPUT	VOLTAGE RANGE	100 ~ 305Vac
	FREQUENCY RANGE	The input frequency range will be 47 to 63 Hz.
	POWER FACTOR (Typ.)	PFC >0.90 at rated current and over rated voltage range from 120-277VAC
	EFFICIENCY (Typ.)	TBD
	AC CURRENT	0.4A max @ 120Vac and 277Vac
	INRUSH CURRENT (Typ.)	<30A@25°C, 230Vac cold start
	LEAKAGE CURRENT	<500µA (400µA typical)
DIMMING	THD (TOTAL HARMONIC DIST.)	Compliance to EN61000-3-2 Class C Standards, THD ≤ 20% with DC output at full load and nominal input voltages.
	MODES	DC Dimming Control: 0-10 Vdc TRIAC Dimming is based on forward or reverse phase dimmer <b>Have both sinking and sourcing</b>
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	< 30% above the maximum output current listed for the specific part number
	OVER TEMPERATURE	If temperature at T <sub>c</sub> (the surface temperature of the case) is >90°C, the light should automatically dim to 5%- 15% light output. Then if the temperature drops below 80°C-50°C, the unit should go back to 100% automatically.

**Compliance:**

- Materials: RoHS Compliant
- Safety: UL8750, CAN/CSA-C22.2 No. 250.13-12 ,Class 2 compliant to UL1310(All models)&CSA C22.2 No.223(see notes)
- EMI: FCC Part 15 Class B and EN55015 Compliant
- IP66: Suitable for indoor or outdoor applications in dry, damp and wet locations
- Noise Rating: Class A

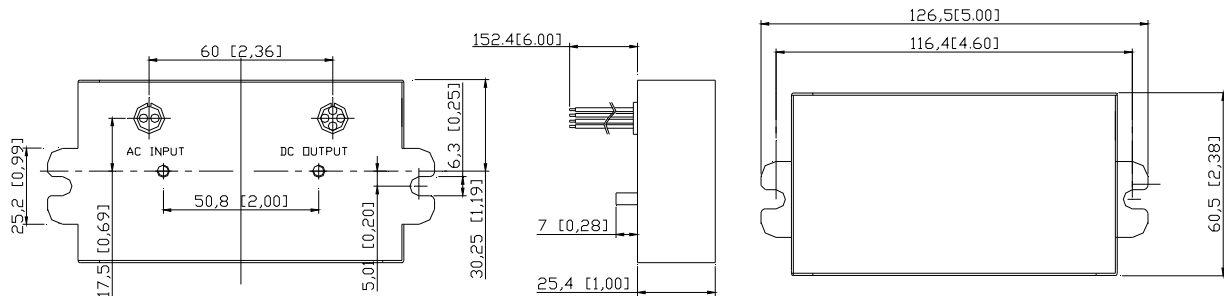


ENVIRONMENT	WORKING TEMPERATURE (Typ.)	-40°C ~ +70°C ambient (Tcase rated for 90C)
	WORKING HUMIDITY	5% ~ 95% RH non-condensing
	STORAGE TEMPERATURE	-40°C ~ + 85°C
	STORAGE HUMIDITY	5% ~ 95% RH non-condensing
	Waterproof Rating	TBD
	IMPACT RESISTANCE	1 g/s
	VIBRATION	5-55Hz/2g, 30 minutes
SAFETY & EMC	SAFETY STANDARDS	UL8750, CAN/CSA-C22.2 No. 250.13-12 ,Class 2 power supply
	EMI CONDUCTION & RADIATION	Compliance FCC Part 15 Class B and EN55015 Compliant
	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	IEC61000-4-5 LEVEL 4 (2KV/1KA L-L) 2.5kV (100kHz ring wave at 2.5kV common mode and differential)
OTHERS	LIFETIME	50,000 hours @ Tcase ≤ 90C

### Mechanical Details

Wires	Colors	Type
Input	White (Neutral)	UL1015
	Black (Line)	AWG18
Output	Red (LED+)	UL1430
	Blue (LED-)	AWG18
Dimming (optional)	Purple (Dim+10V Input)	UL1430
	Groy (Dim- 0V Input)	AWG18

Case	
Material	Black/White PC, PBT, PPO, Plastic
Unit Weight	TBD
Dimensions	140.0mm (L) x 48mm (W) x 32.0mm (H)



Drawing not to scale

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

EHWZ Limited

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