ESEETRONICS

HLG-300W Series

Constant Current+Constant Voltage+Constant Output

Feature:

- Universal input range
- Constant Voltage+Constant power mode output
- Protections: Short circuit/Overload/Over voltage/Over temperature
- Cooling by free air convection
- Fully protected aluminum housing
- IP67/IP65 rating for indoor or outdoor installations
- Suitable for dry, wet and rainy environment
- 100% full load burn-in test
- High efficiency, long life and reliability
- 3 years warranty

CE SELV IP65 IP67

Applications:

- LED street lighting
- LED wall lights
- LED high bay
- LED fishing lights
- LED floodlights
- LED plant lights
- Architectural lighting
- Electronics instruments, equipment and device.

Description:

The XLG-350W series is a waterproof AC to DC LED driver power supply designed with constant voltage, constant current, and constant power output, adopting international standards Universal AC input voltage range, the entire series provides 12V, 24V, 36V, and 48V outputs. Due to its conversion efficiency of up to 88%, it adopts windless technology Fan design, capable of operating within a temperature range of -20 ℃ to+60 ℃ under natural air cooling for heat dissipation. Metal casing and IP65/IP67 high protection, etc. The level of design makes the XLG-350W series suitable for both indoor and outdoor applications. Equipped with long-life aluminum electrolytic capacitors, it provides ultra-low no-load power consumption (less than 0.75W), making it easy for the terminal system to meet international energy requirements XLG-350W has complete protection function and anti 3G vibration capability. It complies with safety regulations such as IEC/EN61347 and EN60950-1, and can meet the requirements. The energy-saving demand of the new generation LED lighting provides a cost-effective solution for various LED lighting

Model Code

HLG - 300 - 24

- 24 — Output Voltage
- 300 — Output Power
- HLG — Series Name

SPECIFICATION

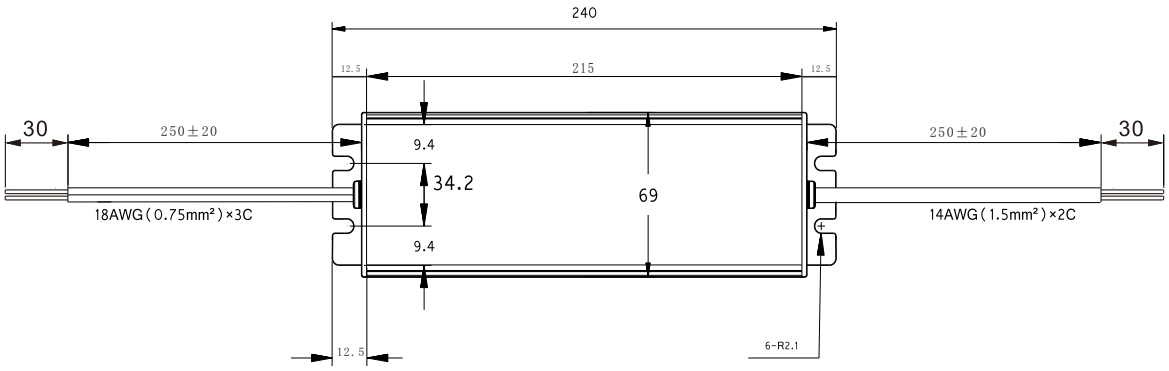
Model		HLG-300-12	HLG-300-24	HLG-300-36	HLG-300-48
OUTPUT	DC VOLTAGE	12V	24V	36V	48V
	RATED CURRENT	25A	12.5A	8.3A	4.2A
	VOLTAGE RANGE	0~25A	0~12.5A	0~8.3A	0~4.2A
	RATED POWER	300W	300W	300W	300W
	RIPPLE&NOISE	180mVp-p	200mVp-p	220mVp-p	220mVp-p
	VOLTAGE TOLERANCE Note.3	±3%	±2%	±2%	±2%
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION Note.5	±2%	±0.5%	±0.5%	±0.5%
	SETUP,RISE TIME	200ms, 30ms, 20ms/230VAC,(Full load)			
	INPUT VOLTAGE RANGE	100～264VAC , 135～373VDC(Refer to “Static characteristics ”)			
INPUT	FREQUENCY RANGE	47～63Hz			
	AC CURRENT	3.5A/230VAC			
	EFFICIENCY	91.3%	92%	93%	94%
	INRUSH CURRENT	COLD START 45A/230VAC			
	LEAKAGE CURRENT	＜2mA/240VAC			
PROTECTION	OVER CURRENT	95%~108% Constant current limiting, recovers automatically after fault condition is removed			
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	115%～135% of rated output voltage start over voltage protection			
		Hiccup mode, recovers automatically after fault condition is removed			
	OVER TEMPERATURE	95℃±10℃(JK1 beside the transformer/Surface inspection of MOS transistor)			
		Protection method: Turn off the output voltage and automatically restore after the temperature drops			
ENVIRONMENT	WORKING TEMP.	-20℃～+60℃ (Refer to"Derating Curve")			
	WORKING HUMIDITY	20%～90%RH,non-considering			
	STORAGE TEMP. HUMIDITY	-40℃～+85℃; 10%～95%RH non-considering			
	VIBRATION	10～500Hz, 3G 10min./1circle, each along X、Y、Z axes, 60 min			
SAFTY	WITHSTAND VOLTAGE	(I/P~O/P): 1.5KVAC (I/P~FG): 1.5KVAC (O/P~FG): 0.5KVAC			
	ISOLATION RESISTANCE	(I/P~O/P), (I/P~FG), (O/P~FG): 100M Ohms/500VDC/25℃/70%RH			
STANDARDS	SAFTY STANDARD	Appliance to UL60950-1, TUV EN60950-1			
	EMC EMISION	Appliance to EN55022 Class A			
	EMC IMMUNITY	Appliance to EN55024			
OTHERS	DIMENSION	240*69*43mm (L*W*H)			
	PACKING	1.26kg/16pcs/21.5kg/0.026m³			

NOTE:

1. All parameters, unless otherwise specified, are measured at 230VAC voltage input, rated load, and 25 ℃ conditions.
2. Ripple and noise voltage were measured on a 20MHz bandwidth oscilloscope with 0.1 μ and 47 μ capacitors added to the end of a 12 inch twisted pair cable.
3. Accuracy: Voltage setting error, linear adjustment rate, and load adjustment rate.
4. Linear adjustment rate measurement method: Test from low voltage to high voltage under rated load.
5. Measurement method for load adjustment rate: from 0% to 100% rated load.
6. The power supply should be considered as a part of the system components and electromagnetic compatibility related confirmation should be carried out in conjunction with the terminal equipment.

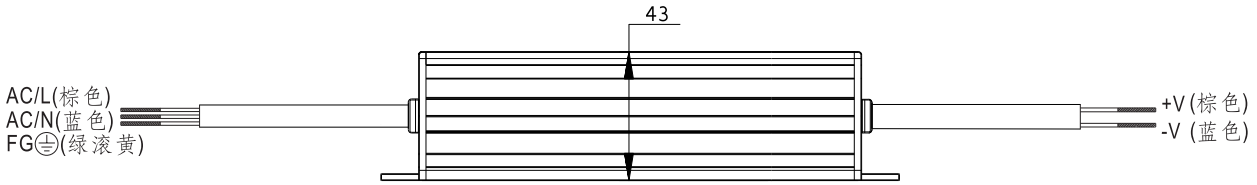
MECHANICAL

UNIT:mm

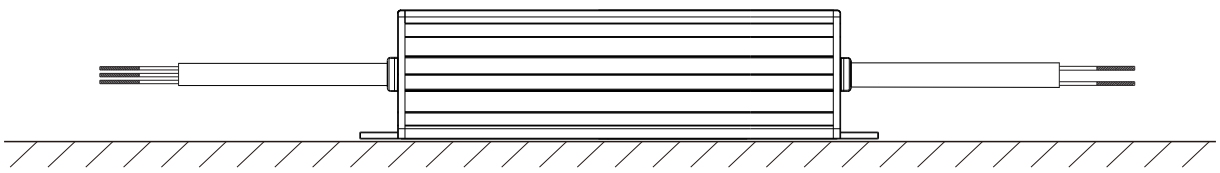


Wiring Instruction

INPUT (Black 3-pin)		OUTPUT (Black 2-pin)	
BROWN	AC/L	BROWN	DC OUTPUT +V
BLUE	AC/N	BLUE	DC OUTPUT -V
GREEN&YELLOW	⏚ TO EARTH		

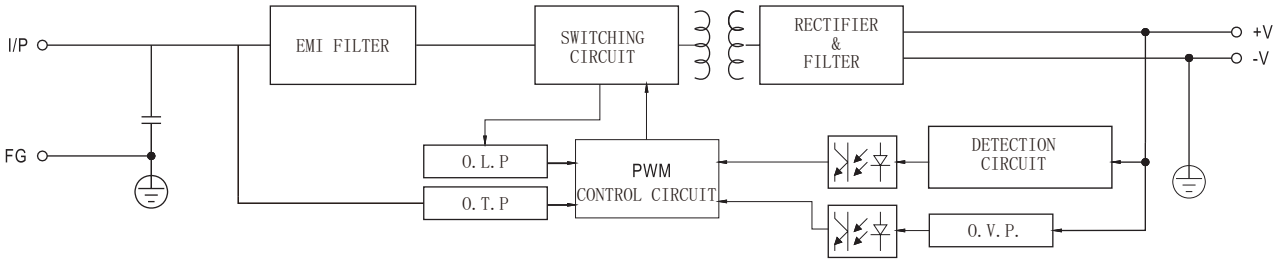


Recommended Installation Direction

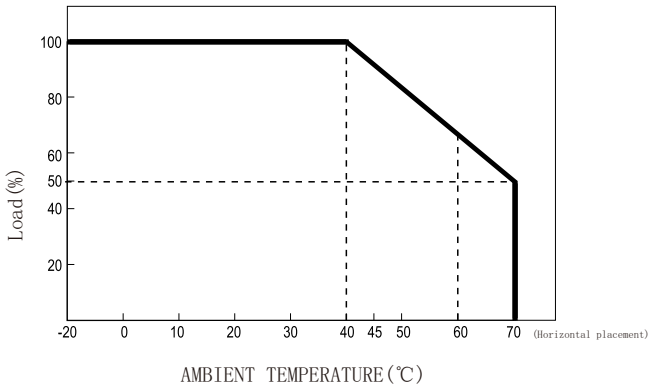


Block Diagram

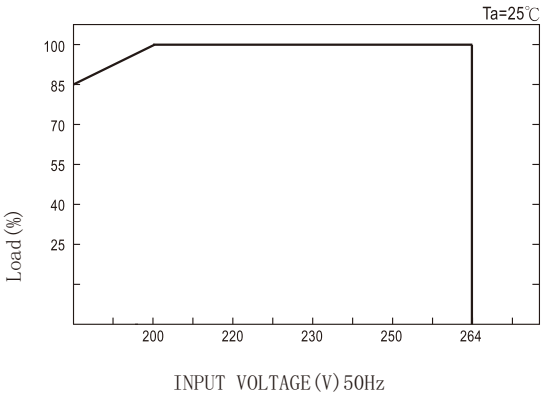
Frequency: 105KHz



Static characteristics



Derating curve



Label sample