



Features :

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 3 years warranty

SPECIFICATION

Dimension: 170 × 68 × 40mm

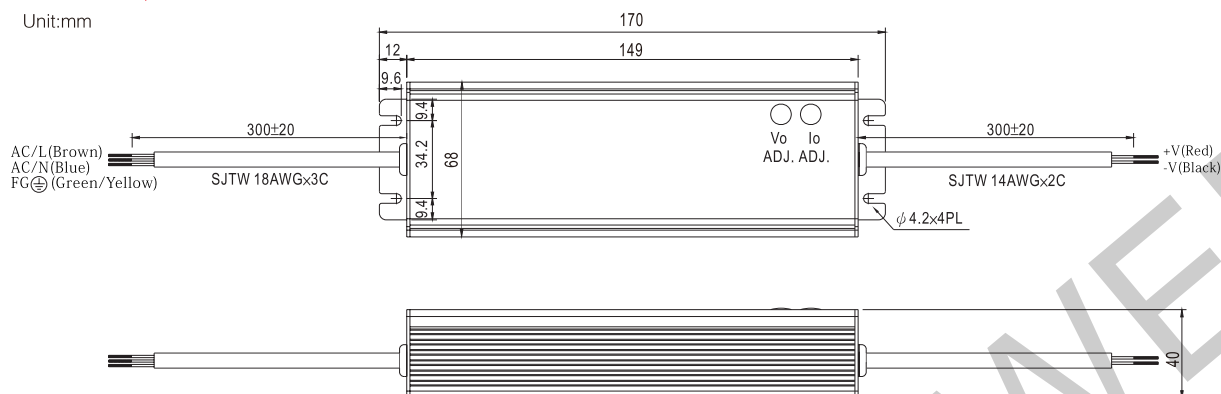
IP65 CE

Model		HLG-100-12	HLG-100-20	HLG-100-24	HLG-100-30	HLG-100-36	HLG-100-42	HLG-100-48	HLG-100-54
OUTPUT	DC VOLTAGE	12V	20V	24V	30V	36V	42V	48V	54V
	CONSTANT CURRENT REGION	6~12V	10~20V	12~24V	15~30V	18~36V	21~42V	24~48V	27~54V
	RATED CURRENT	5A	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A
	RATED POWER	60W	96W	96W	96W	95.4W	95.76W	96W	95.58W
	RIPPLE & NOISE (max.)	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	10.8~13V	17~22V	22~27V	27~33V	33~40V	38~46V	43~53V	49~58V
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer or through output cable							
INPUT	VOLTAGE RANGE	90 ~ 305 VAC 47 ~ 63Hz, 127 ~ 370VDC							
	AC CURRENT (Typ.)	1.2A/115VAC 0.55A/230VAC							
	POWER FACTOR (Typ.)	PF > 0.95/230VAC PF > 0.98/115VAC(at full load)							
	EFFICIENCY (Typ.)	90%	93%	93%	93%	93%	93%	93%	93%
	INRUSH CURRENT (Typ.)	COLD START 70A/230VAC							
	LEAKAGE CURRENT	0.75mA/240VAC							
	OVER CURRENT	95~106%							
PROTECTION	SHORT CIRCUIT	Protection type : Constant current limiting, recovers automatical ly after fault condition is removed							
	OVER VOLTAGE	Hiccup mode, recovers automatically after fault condition is remove							
	OVER TEMPERATURE	14~17V	23~27V	28~34V	34~38V	41~46V	47~53V	54~60V	59~65V
		Protection type : Shut down o/p voltage, re-power on to recover							
ENVIRONMENT	WORKING TEMP.	100°C ± 10°C(RTH2)							
	STORAGE TEMP., HUMIDITY	Protection type : Shut down o/p voltage, re-power on to recover							
	VIBRATION	-30°C ~ +60°C;20% ~ 90%RH(Please refer to "derating curve")							
	SAFETY STANDARD	-40°C ~ +80°C;10% ~ 95%RH Non-condensing							
SAFETY & EMC	WITHSTAND VOLTAGE	10 ~ 500Hz, 2G 10min./1Cycle, Period for 60min, Each axes							
	ISOLATION RESISTANCE	UI1310 Class2, TUV EN61347-1,EN61347-2-13,CAN/CSA C22.2 NO.223-M91(exceptfor 48V) , IP65 approved							
	EMC EMISSION	I/P-O/P: 3.75KVAC, I/P-FG: 1.5KVAC, O/P-FG: 0.5KVAC							
	EMC IMMUNITY	I/P-O/P: 100M Ohms/500VDC							
OTHERS	DIMENSION	Compliance to EN55015, EN61000-3-2 Class C (≥ 60% load) ; EN61000-3-3							
	PACKING	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A							
NOTE		170*68*40 (L*W*H)							
		1kg/20pcs/21kg/1.07CUFT							

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- Tolerance : includes set up tolerance, line regulation and load regulation.
- Constant current operation region is within 60% ~ 100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.
- Derating may be needed under low input voltages. Please check the static characteristics for more details.
- Safety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part18.
- Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.

Mechanical specification

Unit:mm

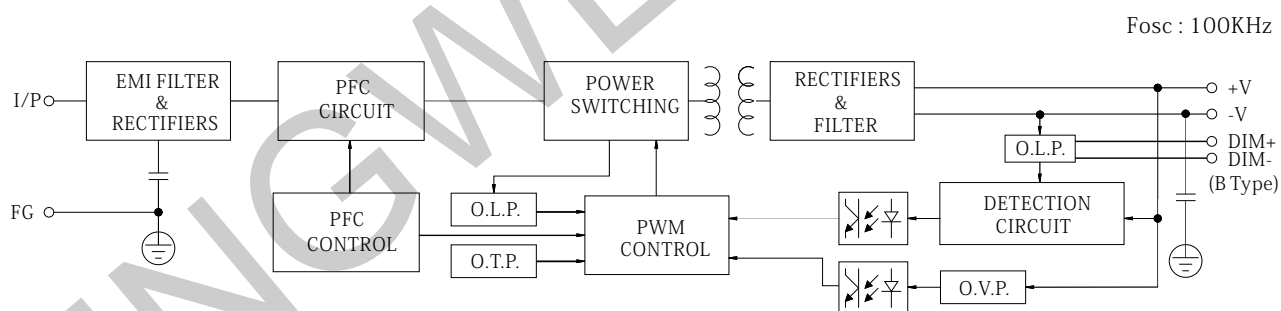


※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
(Can access by removing the rubber stopper on the case.)

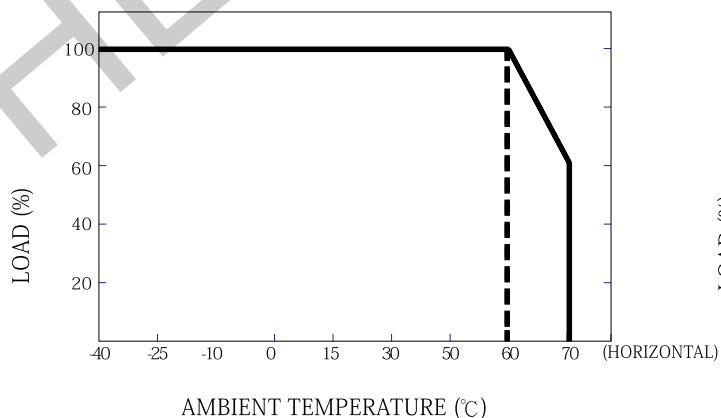
lead-out wire assignment

Input(Black three-core)		Output (Black two-core)	
Brown	AC/L	Red	DC OUTPUT +V
Blue	AC/N	Black	DC OUTPUT -V
Yellow-green	FG		

Block diagram



Derating curve



Static characteristic

