



- 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
  - Output voltage and current 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: 225\*68\*40mm



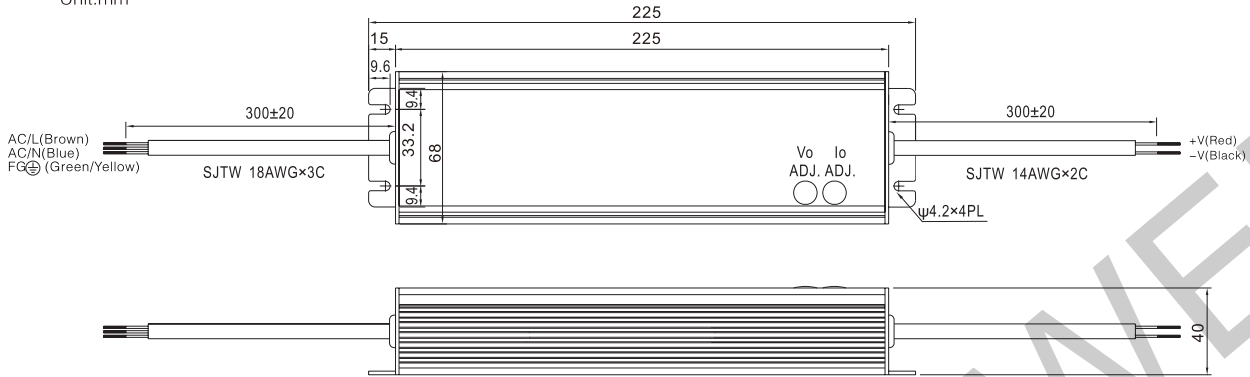
Model		HLG-185-24	HLG-185-36	HLG-185-42	HLG-185-48	HLG-185-54	
OUTPUT	DC VOLTAGE	24V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION	12~24V	18~36V	21~42V	24~48V	27~54V	
	RATED CURRENT	7.8A	5.2A	4.4A	3.9A	3.45A	
	RATED POWER	187.2W	187.2W	184.8W	187.2W	186.3W	
	RIPPLE & NOISE (max.)	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	22~27V	33~40V	38~46V	43~53V	49~58V	
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer or through output cable					
		3.9~7.8A	2.6~5.2A	2.2~4.4A	1.95~3.9A	1.72~3.45A	
VOLTAGE TOLERANCE	± 1%	± 1%	± 1%	± 1%	± 1%		
SETUP, RISE HOLD UP TIME	2500ms,80ms,16ms/115VAC. 230VAC(Full load)						
INPUT	VOLTAGE RANGE	90 ~ 264VAC 47 ~ 63Hz, 127 ~ 373VDC					
	AC CURRENT (Typ.)	2.1A/115VAC 0.9A/230VAC					
	POWER FACTOR (Typ.)	PF > 0.95/230VAC PF > 0.98/115VAC(at full load and rated output voltage); PF ≥ 0.9 ( 65~100% load )					
	EFFICIENCY (Typ.)	93.5%	93.5%	94%	94%	94%	
	INRUSH CURRENT (Typ.)	COLD START 75A/230VAC					
	LEAKAGE CURRENT	0.75mA/240VAC					
PROTECTION	OVER CURRENT	95~108%					
	SHORT CIRCUIT	Protection type : Constant current limiting, recovers automatical ly after fault condition is removed					
	OVER VOLTAGE	28 ~ 34V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V	
	OVER TEMPERATURE	105°C ± 10°C(RTH2)					
		Protection type : Shut down o/p voltage, re-power on to recover					
ENVIRONMENT	WORKING TEMP.	-30°C ~ +70°C;20% ~ 90%RH(Please refer to "derating curve" )					
	STORAGE TEMP., HUMIDITY	-40°C ~ +80°C;10% ~ 95%RH Non-condensing					
	VIBRATION	10 ~ 500Hz, 2G 10min./1Cycle, Period for 60min, Each axes					
	SAFETY STANDARD	UI1310 Class2, TUV EN61347-1,EN61347-2-13,CAN/CSA C22.2 NO.223-M91(exceptfor 48V) , IP65 certificated					
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC, I/P-FG: 1.88KVAC, O/P-FG: 0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P,I/P-FG,O/P-FG: 100M Ohms/500VDC/25°C/70%RH					
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C ( ≥ 50 % load ) ; EN61000-3-3					
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A					
	DIMENSION	225*68*40 ( L*W*H )					
	PACKING	1.3kg/20pcs/27kg/0.033m³					

NOTE

- 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.
- Setup time is measured at cold start condition. Turning ON/OFF the power supply frequently may increase the setup time.

**Mechanical specification**

Unit:mm

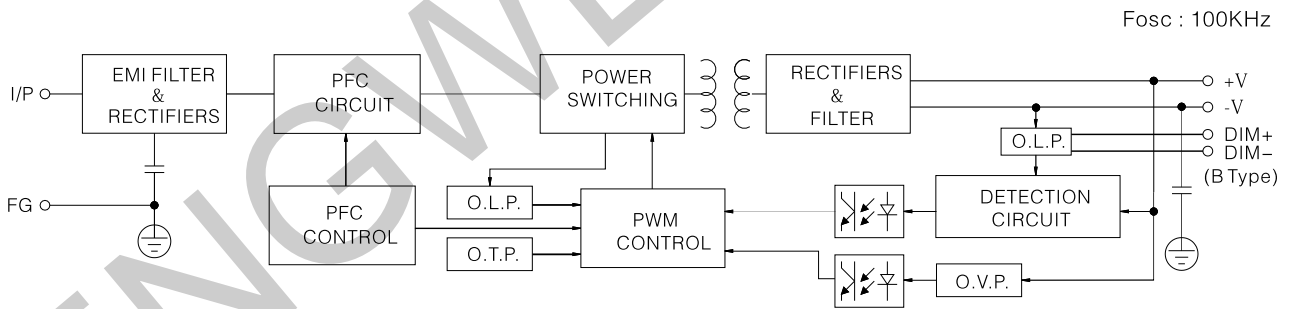


※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)

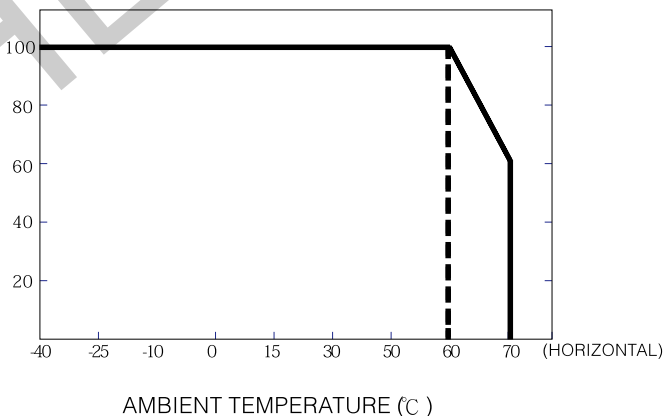
**lead-out wire assignment**

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**

