

## HLG-240W series Single Output Switching Power Supply



Dimension: 225\*68\*40mm

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	\
---------------	---

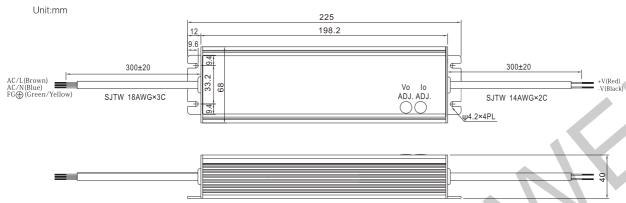
# W SELV IP65 🕞 ( E 🎎

Model	HLG-240-20	HLG-240-24	HLG-240-30	HLG-240-36	HLG-240-42	HLG-240-48	HLG-240-54				
DC VOLTAGE	20V	24V	30V	36V	42V	48V	54V				
CONSTANT CURRENT REGION	10~20V	12~24V	15~30V	18~36V	21~42V	24~48V	27~54V				
RATED CURRENT	12A	10A	8A	6.7A	5.72A	4.8A	4.45A				
RATED POWER	240W	240W	240W	241.2W	240.2W	230.4W	240.3W				
RIPPLE & NOISE (max.)	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p				
VOLTAGE ADJ. RANGE	18.6~21.4V	22.4~25.6V	28~32V	33.5~38.5V	39~45V	44.8~51.2V	50~57V				
CURRENT AD. L BANGE	Can be adjusted by internal potentiometer or through output cable										
CONNEINT ADJ. NAINGE	6~12A	5~10A	4~8A	3.3~6.7A	2.86~5.72A	2.5~4.8A	2.23~4.45A				
VOLTAGE TOLERANCE	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%				
SETUP, RISE HOLD UP TIME	2500ms,80ms,16ms/115VAC. 230VAC(at full load)										
VOLTAGE RANGE	90 ~ 264 VA	C 47 ~ 63Hz,	127 ~ 370VDC								
AC CURRENT (Typ.)	4A/115VAC 2A/230VAC										
POWER FACTOR (Typ.)	PF > 0.95/230VAC PF > 0.98/115VAC(at full load)										
EFFICIENCY (Typ.)	92%	93%	93%	93.5%	94%	94%	94%				
INRUSH CURRENT (Typ.)	p.) COLD START 75A/230VAC 0.75mA/240VAC										
LEAKAGE CURRENT											
OVED CURRENT	95~108%										
OVER CURRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed										
SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is remove										
OVER VOLTAGE	22 ~ 26V	26 ~ 33V	32.5 ~ 36.5V	40 ~ 48V	46 ~ 50V	53 ~ 62V	59 ~ 65V				
	Protection type : Shut down o/p voltage, re-power on to recover										
OVER TEMPERATURE	105°C ± 10°C(RTH2)										
Protection type: Shut down o/p voltage, re-power on to recover											
WORKING TEMP.	-40 °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 approved										
WITHSTAND VOLTAGE	I/P-O/P: 3.75KVAC, I/P-FG: 1.5KVAC, O/P-FG: 0.5KVAC										
ISOLATION RESISTANCE	I/P-O/P: 100M Ohms/500VDC										
					EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C (≥60% load); EN61000-3-3						
EMC EMISSION	Compliance	to EN55015,	EN61000-3-2	2 Class C (≥6	60% load) ; EN	61000-3-3					
EMC EMISSION EMC IMMUNITY	<u>'</u>			· · ·	60% load) ; EN 24, light industry		(V), criteria A				
	<u>'</u>	EN61000-4-2		· · ·			(V), criteriaA				
	DC VOLTAGE  CONSTANT CURRENT REGION RATED CURRENT RATED POWER RIPPLE & NOISE (max.)  VOLTAGE ADJ. RANGE  CURRENT ADJ. RANGE  VOLTAGE TOLERANCE SETUP, RISE HOLD UP TIME  VOLTAGE RANGE  AC CURRENT (Typ.) POWER FACTOR (Typ.)  INRUSH CURRENT (Typ.)  LEAKAGE CURRENT  OVER CURRENT  OVER CURRENT  WORT CIRCUIT  OVER YOLTAGE  WORKING TEMP.  STORAGE TEMP., HUMIDITY  VIBRATION  SAFETY STANDARD  WITHSTAND VOLTAGE	DC VOLTAGE         20V           CONSTANT CURRENT REGION         10~20V           RATED CURRENT         12A           RATED POWER         240W           RIPPLE & NOISE (max.)         150mVp-p           VOLTAGE ADJ. RANGE         18.6~21.4V           Current Adj. Range         Can be adjuted           6~12A         Can be adjuted           VOLTAGE TOLERANCE         ± 1%           SETUP, RISE HOLD UP TIME         2500ms,80m           VOLTAGE RANGE         90 ~ 264 VAC           AC CURRENT (Typ.)         4A/115VAC           POWER FACTOR (Typ.)         PF > 0.95/23           EFFICIENCY (Typ.)         92%           INRUSH CURRENT (Typ.)         COLD START           LEAKAGE CURRENT         0.75mA/240           95~108%         Protection ty           OVER CURRENT         Protection ty           OVER VOLTAGE         Protection ty           OVER VOLTAGE         Protection ty           WORKING TEMP.         -40°C ~ +70           STORAGE TEMP., HUMIDITY         -40°C ~ +80           VIBRATION         10 ~ 500Hz,           SAFETY STANDARD         UI1310 Class2           WITHSTAND VOLTAGE         I/P-O/P: 3.3	DC VOLTAGE         20V         24V           CONSTANT CURRENT REGION         10~20V         12~24V           RATED CURRENT         12A         10A           RATED POWER         240W         240W           RIPPLE & NOISE (max.)         150mVp−p         150mVp−p           VOLTAGE ADJ. RANGE         18.6~21.4V         22.4~25.6V           CURRENT ADJ. RANGE         Can be adjusted by interred 6~12A         5~10A           VOLTAGE TOLERANCE         ± 1%         ± 1%           SETUP, RISE HOLD UP TIME         2500ms,80ms,16ms/115V/           VOLTAGE RANGE         90 ~ 264 VAC 47 ~ 63Hz,           AC CURRENT (Typ.)         4A/115VAC         2A/230VA           POWER FACTOR (Typ.)         PF > 0.95/230VAC         PF > 0.95/230VAC           PF > 0.95/230VAC         PF > 0.95/230VAC         PF > 0.95/230VAC           PF > 0.95/230VAC         PF > 0.95/230VAC         PF > 0.95/230VAC           PF > 0.95/230VAC         PF > 0.95/230VAC         PF > 0.95/230VAC           PF > 0.95/230VAC         PF > 0.95/230VAC         PF > 0.95/230VAC           PF > 0.95/230VAC         PF > 0.95/230VAC         PF > 0.95/230VAC           PF > 0.95/230VAC         PF > 0.95/230VAC         PF > 0.95/230VAC           PS > 0.95/230VAC         PF > 0.95/	DC VOLTAGE         20V         24V         30V           CONSTANT CURRENT REGION         10~20V         12~24V         15~30V           RATED CURRENT         12A         10A         8A           RATED POWER         240W         240W         240W           RIPPLE & NOISE (max.)         150mVp−p         150mVp−p         200mVp−p           VOLTAGE ADJ. RANGE         18.6~21.4V         22.4~25.6V         28~32V           CURRENT GLEANCE         ± 1%         ± 1%         ± 1%           VOLTAGE RANGE         ± 1%         ± 1%         ± 1%           VOLTAGE RANGE         90 ~ 264 VAC 47 ~ 63Hz, 127 ~ 370VDC         AV115VAC, 230VAC           POWER FACTOR (Typ.)         PF > 0.95/230VAC         PF > 0.98/115VAC(at           EFFICIENCY (Typ.)         92%         93%         93%	DC VOLTAGE         20V         24V         30V         36V           CONSTANT CURRENT REGION         10~20V         12~24V         15~30V         18~36V           RATED CURRENT         12A         10A         8A         6.7A           RATED POWER         240W         240W         240W         241.2W           RIPPLE & NOISE (max.)         150mVp-p         150mVp-p         200mVp-p         250mVp-p           VOLTAGE ADJ. RANGE         18.6~21.4V         22.4~25.6V         28~32V         33.5~38.5V           CURRENT ADJ. RANGE         6~12A         5~10A         4~8A         3.3~6.7A           VOLTAGE TOLERANCE         ± 1% <td>DC VOLTAGE         20V         24V         30V         36V         42V           CONSTANT CURRENT REGION         10~20V         12~24V         15~30V         18~36V         21~42V           RATED CURRENT         12A         10A         8A         6.7A         5.72A           RATED POWER         240W         240W         240W         241.2W         240.2W           RIPPLE &amp; NOISE (max.)         150mVp−p         150mVp−p         200mVp−p         250mVp−p         250mVp−p           VOLTAGE ADJ. RANGE         18.6~21.4V         22.4~25.6V         28~32V         33.5~38.5V         39~45V           CURRENT ADJ. RANGE         18.6~21.4V         22.4~25.6V         28~32V         33.5~38.5V         39~45V           CURRENT ADJ. RANGE         6~12A         5~10A         4~8A         3.3~6.7A         2.86~5.72A           VOLTAGE FANGE         ± 1%<td>DC VOLTAGE         20V         24V         30V         36V         42V         48V           CONSTANT CURRENT REGION         10-20V         12-24V         15-30V         18-36V         21-42V         24-48V           RATED CURRENT         12A         10A         8A         6.7A         5.72A         4.8A           RATED POWER         240W         240W         240W         241.2W         240.2W         230.4W           RIPPLE &amp; NOISE (max.)         150mVp-p         150mVp-p         250mVp-p         250mVp-p</td></td>	DC VOLTAGE         20V         24V         30V         36V         42V           CONSTANT CURRENT REGION         10~20V         12~24V         15~30V         18~36V         21~42V           RATED CURRENT         12A         10A         8A         6.7A         5.72A           RATED POWER         240W         240W         240W         241.2W         240.2W           RIPPLE & NOISE (max.)         150mVp−p         150mVp−p         200mVp−p         250mVp−p         250mVp−p           VOLTAGE ADJ. RANGE         18.6~21.4V         22.4~25.6V         28~32V         33.5~38.5V         39~45V           CURRENT ADJ. RANGE         18.6~21.4V         22.4~25.6V         28~32V         33.5~38.5V         39~45V           CURRENT ADJ. RANGE         6~12A         5~10A         4~8A         3.3~6.7A         2.86~5.72A           VOLTAGE FANGE         ± 1% <td>DC VOLTAGE         20V         24V         30V         36V         42V         48V           CONSTANT CURRENT REGION         10-20V         12-24V         15-30V         18-36V         21-42V         24-48V           RATED CURRENT         12A         10A         8A         6.7A         5.72A         4.8A           RATED POWER         240W         240W         240W         241.2W         240.2W         230.4W           RIPPLE &amp; NOISE (max.)         150mVp-p         150mVp-p         250mVp-p         250mVp-p</td>	DC VOLTAGE         20V         24V         30V         36V         42V         48V           CONSTANT CURRENT REGION         10-20V         12-24V         15-30V         18-36V         21-42V         24-48V           RATED CURRENT         12A         10A         8A         6.7A         5.72A         4.8A           RATED POWER         240W         240W         240W         241.2W         240.2W         230.4W           RIPPLE & NOISE (max.)         150mVp-p         150mVp-p         250mVp-p         250mVp-p				

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
  2. Ripple & noise are measured at 20MHz of bandwidth by using a 12° twisted pair—wire terminated with a 0.1uf & 47uf parallel capacitor.
  3. Tolerance: includes set up tolerance, line regulation and load regulation.
  4. 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.
  5. Derating may be needed under low input voltages. Please check the static characteristics for more details.
  6. Safety and EMC design refer to EN60598–1, CNS15233, GB7000.1, FCC part18.
  7. 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.

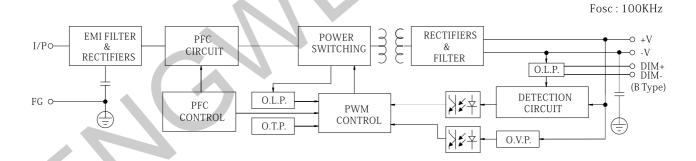
#### Mechanical specification



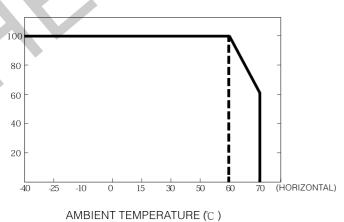
\* IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer. (Can access by removing the rubber stopper on the case.)

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	
Belowkgraga	gram <sup>FG</sup> ±			



### Derating curve



#### Static characteristic

