### 240W Constant Voltage LED Lighting Power Supplies





#### **Features**

- · Constant voltage mode power supply
- · Universal AC input up to 305VAC
- · Built in active PFC function
- · Output voltage & constant current level adjustable through internal potentiometer
- $\boldsymbol{\cdot}$  Short circuit, over current, over voltage, over temperature protections
- · Cooling by free air convection
- · Compliance to worldwide safety regulations for lighting
- · Suitable for dry, damp, wet locations



Specificatio	n									
•	Voltage	90V~305VAC or 127V~431VDC.								
	Frequency	47 63 Hz								
NPUT	Current	4A/ 115VAC 2A/	<sup>'</sup> 230VAC 1.2A/ 277VAC							
NPUI	Power Factor	PF>0.98/115VAC PF>0.95/230VAC, full load (Please refer to "Power Factor Characteristic" curve)								
	Inrush Current	75A@230VAC, Cold start								
	Leakage Current	<0.75mA@277VAC input								
	MODEL No.	HLG-240H-12A	HLG-240H-15A	HLG-240H-20A	HLG-240H-24A	HLG-240H-30A				
	Voltage	12V	15V	20V	24V	30V				
	Voltage Adj. Range	11.2~12.8V	14 ~ 16V	18.6 ~ 21.4V	22.4 ~ 25.6V	28 ~ 32V				
	Constant Current Regi	on 6~12V	7.5~15V	10~20V	12~24V	15~30V				
	Rated Current	16A	15A	12A	10A	8A				
UTPUT	Current Adj, Range	8 ~ 16A	7.5 ~ 15A	6 ~ 12A	5 ~ 10A	4 ~ 8A				
	Power	192W	225W	240W	240W	240W				
	Ripple & Noise	150mV	150mV	150mV	150mV	200mV				
	Efficiency (TYP.)	90%	90%	92%	93%	93%				
PROTECTIO <b>N</b>	Over Voltage	13.5 ~ 18V	17.5 ~ 21.5V	23.5 ~ 27.5V	27 ~ 34V	33 ~ 39V				
		Shutdown and latch off output voltage, re-power on to recover								
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed								
	Over Temperature	$100^{\circ}$ ±5 $^{\circ}$ (TSW1)/12v&15v $95^{\circ}$ ±5 $^{\circ}$ (TSW1) all other outputs; shutdown output voltage, recovers automatically after temperature goes down								
	Over Current	95~108% rated output current; constant current limiting, recovers automatically after fault condition is removed								
ELEC. CHAR.	Rise Time	80mS@230Vac& 115VAC, full load								
	Hold Up Time	15mS@230V/115VAC, full load condition								
	Voltage Tolerance	±2.5% for 12V; ±2.0% for 15V; ±1.0% all others								
	Line Regulation	±0.5%								
	Load Regulation	±2.0% for 12V; ±1.5% for 15V; ±1.0% for 20V; ±0.5% all others								
	Setup Time	2500ms@230VAC & 115VAC								
ENVIDONMENT	Temperature	Operating: -40~+70℃; De-rating: 60~70℃@60% load; Storage: -40~ +80℃								
	IIidia.	Operating: 20%~95% RH; Storage: 10%~95% RH (non condensing)								
NIVIDONIMENT	Humidity	operating: 20%~95%	RH; Storage: 10%~95% RH (no	ii condensing)						
NVIRONMENT	Temp. Coefficient	±0.03%/°C (0~50°C)	RH; Storage: 10%~95% RH (no	n conscioung)						
NVIRONMENT		±0.03%/℃ (0~50℃)	RH; Storage: 10%~95% RH (no /1cycle, period for 72min. eac	<u>-</u> ,						
NVIRONMENT	Temp. Coefficient	±0.03%/℃ (0~50℃)	/1cycle, period for 72min. eac	<u>-</u> ,						
	Temp. Coefficient Vibration	±0.03%/℃ (0~50℃) 10~500Hz, 5G 12min., I/P-0/P:3.75KVAC	/1cycle, period for 72min. eac	n along X, Y, Z axes P-FG:0.5KVAC						
	Temp. Coefficient Vibration Withstand Voltage	±0.03%/°C (0~50°C) 10~500Hz, 5G 12min., I/P-0/P:3.75KVAC I/P-0/P, I/P-FG, 0/P-F	/1cycle, period for 72min. eac I/P-FG:1.88KVAC	n along X, Y, Z axes P-FG:0.5KVAC °C / 70% RH	)-08,TUV EN61347-1, EN6134	7-2-13 independent;				
AFETY	Temp. Coefficient Vibration Withstand Voltage Isolation Resistance	±0.03%/°C (0~50°C) 10~500Hz, 5G 12min., I/P-0/P:3.75KVAC I/P-0/P, I/P-FG, 0/P-F Compliance to UL1012 UL60950-1, UL8750,TU	/1cycle, period for 72min. eac I/P-FG:1.88KVAC	n along X, Y, Z axes P-FG:0.5KVAC 5°C / 70% RH , UL8750, CSAC22.2 No. 250.0		7-2-13 independent;				
	Temp. Coefficient Vibration Withstand Voltage Isolation Resistance Safety Standard	±0.03%/°C (0~50°C) 10~500Hz, 5G 12min., I/P-0/P:3.75KVAC I/P-0/P, I/P-FG, 0/P-F Compliance to UL1012 UL60950-1, UL8750,TU Compliance to EN5501	/1cycle, period for 72min. eac I/P-FG:1.88KVAC	n along X, Y, Z axes P-FG:0.5KVAC 5°C / 70% RH , UL8750, CSAC22.2 No. 250.0 EN61000-3-2 Class C (250%	load) ; EN61000-3-3	7-2-13 independent;				
AFETY	Temp. Coefficient Vibration Withstand Voltage Isolation Resistance Safety Standard EMC Emission	±0.03%/°C (0~50°C) 10~500Hz, 5G 12min., I/P-0/P:3.75KVAC I/P-0/P, I/P-FG, 0/P-F Compliance to UL1012 UL60950-1, UL8750,TU Compliance to EN5501 Compliance to EN6100	/1cycle, period for 72min. eac I/P-FG:1.88KVAC	n along X, Y, Z axes P-FG:0.5KVAC 5°C / 70% RH , UL8750, CSAC22.2 No. 250.0 EN61000-3-2 Class C (250%	load) ; EN61000-3-3	7-2-13 independent;				

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 ℃ 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 50~100% rated output voltage. This is a suitable operation region for LED related applications, but please reconfirm if there are special electrical requirements for specific system designs.

  5. Derating may be needed under low input voltage. Please check the static characteristics for more details.

Please see next page for more Notes

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#### Features

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- Short circuit, over current, over voltage, over temperature protections
- · Cooling by free air convection
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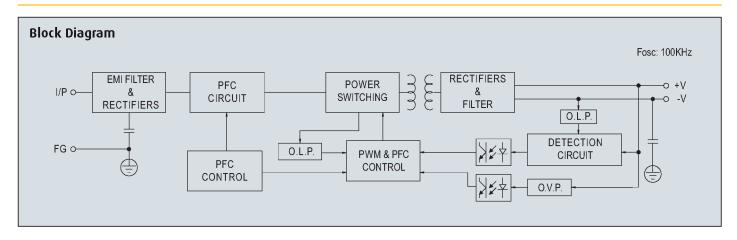
#### Specification

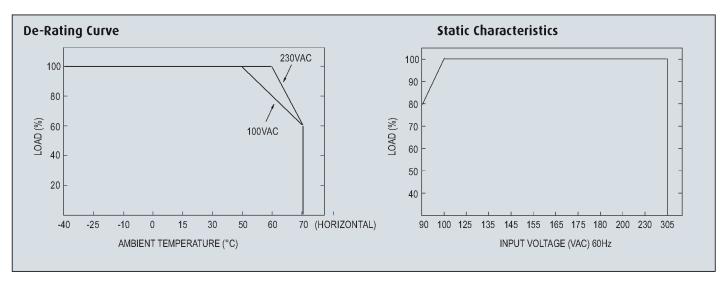
INPUT	Voltage	90V~305VAC or 127V~431VDC.							
	Frequency	47 63 Hz							
	Current	4A/ 115VAC 2A/ 230VAC 1.2A/ 277VAC							
	Power Factor	PF>0.98/115VAC PF>0.95/230VAC, full load (Please refer to "Power Factor Characteristic" curve)							
	Inrush Current	75A@230VAC, Cold start							
	Leakage Current	<0.75mA@277VAC input							
	MODEL No.	HLG-240H-36A	HLG-240H-42A	HLG-240H-48A	HLG-240H-54A				
	Voltage	36V	42V	48V	54V				
	Voltage Adj. Range	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V				
	Constant Current Regi	on 18~36V	21~42V	24~48V	27~54V				
DUTPUT	Rated Current	6.7A	5.72A	5A	4.45A				
	Current Adj. Range	3.3 ~ 6.7A	2.86 ~ 5.72A	2.5 ~ 5A	2.23 ~ 4.45A				
	Power	241.2W	240.24W	240W	240.3W				
	Ripple & Noise	250mV	250mV	250mV	350mV				
	Efficiency (TYP.)	93%	93%	93.5%	94%				
PROTECTION	Over Voltage	43~49V	48~54V	55~63V	60~67V				
		Shutdown and latch off output voltage, re-power on to recover							
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed							
	Over Temperature	$100^{\circ}\pm 5^{\circ}$ (TSW1)/12v&15v $95^{\circ}$ $\pm 5^{\circ}$ (TSW1) all other outputs; shutdown output voltage, recovers automatically after temperature goes down							
	Over Current	95~108% rated output current; constant current limiting, recovers automatically after fault condition is removed							
ELEC. CHAR.	Rise Time	80mS@230Vac& 115VAC, full load							
	Hold Up Time	15mS@230V/115VAC, full load condition							
	Voltage Tolerance	±2.5% for 12V; ±2.0% for 15V; ±1.0% all others							
	Line Regulation	±0.5%							
	Load Regulation	±2.0% for 12V; ±1.5% for 15V; ±1.0% for 20V; ±0.5% all others							
	Setup Time	2500ms@230VAC & 115VAC							
ENVIRONMENT	Temperature	Operating: -40~+70°C ; De-rating: 60~70°C@60% load ; Storage: -40~ +80°C							
	Humidity	Operating: 20%~95% RH; Storage: 10%~95% RH (non condensing)							
	Temp. Coefficient	±0.03%/℃ (0~50℃)							
	Vibration	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
SAFETY	Withstand Voltage	I/P-0/P:3.75KVAC							
	Isolation Resistance	I/P-0/P, I/P-FG, 0/P-FG:>100M 0hms / 500VDC / 25 °C / 70% RH							
	Safety Standard	Compliance to UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750, CSAC22.2 No. 250.0-08,TUV EN61347-1, EN61347-2-13 independent; UL60950-1, UL8750,TUV EN60950-1							
EMC	EMC Emission	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥50% load) ; EN61000-3-3							
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A							
OTHERS	M.T.B.F.	207.9K hrs min. MIL-HDBK-217F (25℃)							
	Packing	N.W.:1.3Kg / 1pc ; 12pcs / 16.6Kgs 0.84CUFT / 1 CTN							
	7. The serves arealy is	considered as a second	46-4	bis.ais.siab dis.sl.sis.s	and since state of the state of				

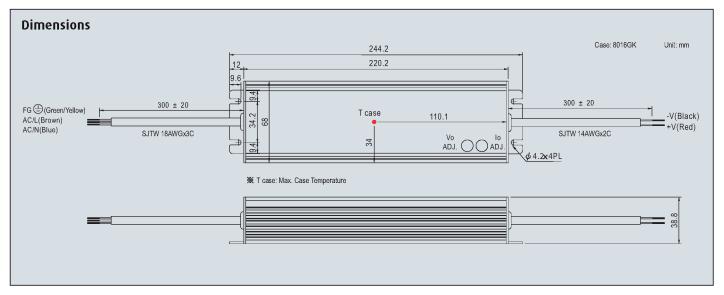
- 7. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation.
- 7. Length of set up time is measured at first cold start. Turning the power supply ON/OFF may lead to increase of the set up time.
- 8. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.

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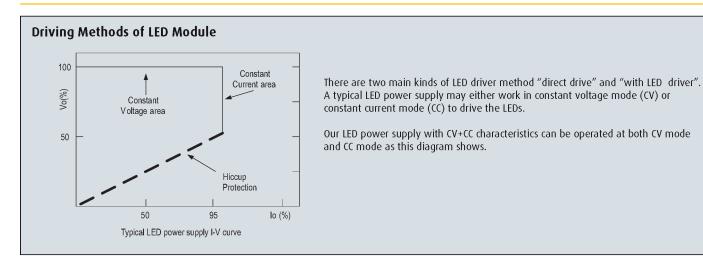


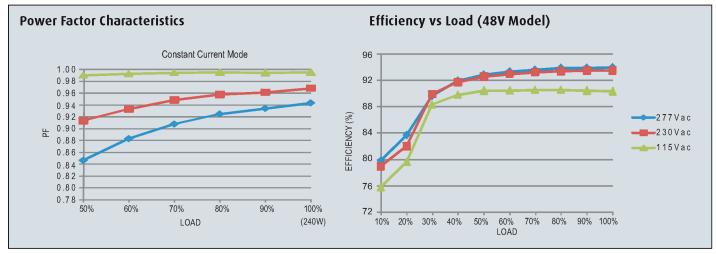


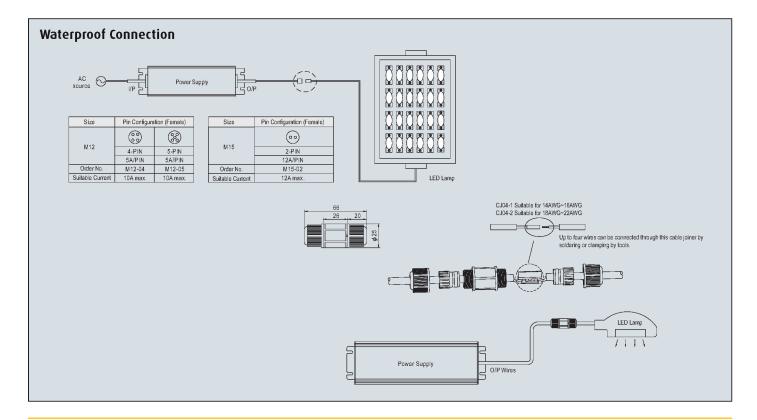


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