



■ Features :

- Universal AC input / Full range (up to 305VAC)
- 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
- Three in one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry / damp / wet locations
- 5 years warranty (Note.10)















HLG-240H-12 A Blank: IP67 rated. Cable for I/O connection.

- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.
- C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.
- D (option, safety pending): IP67 rated. Timer dimming function, contact MEAN WELL for details.

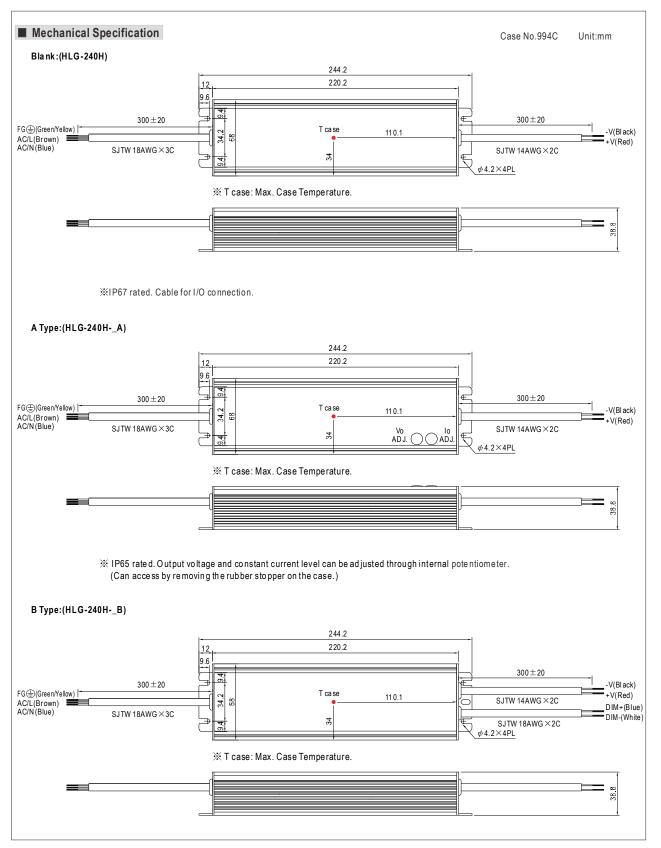
SPECIFICATION

MODEL	AHON	HLG-240H-12	HLG-240H-15	HLG-240H-20	HLG-240H-24	HLG-240H-30	HLG-240H-36	HLG-240H-42	HLG-240H-48	HLG-240H-54				
MODEL	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V				
									-	-				
	CONSTANT CURRENT REGION Note.4		7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V 8A	18 ~ 36V 6.7A	21 ~ 42V 5.72A	24 ~ 48V	27 ~ 54V				
	RATED CURRENT	16A	15A	12A	10A	-	-	-	5A	4.45A				
	RATED POWER	192W	225W	240W	240W	240W	241.2W	240.24W	240W	240.3W				
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p				
	VOLTAGE ADJ. RANGE Note.6													
OUTPUT	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type and C type only 8 ~ 16A 7.5 ~ 15A 6 ~ 12A 5 ~ 10A 4 ~ 8A 3.3 ~ 6.7A 2.86 ~ 5.72A 2.5 ~ 5A 2.23 ~ 4.45A												
		8 ~ 16A	7.5 ~ 15A	6 ~ 12A	5 ~ 10A	4 ~ 8A	3.3 ~ 6.7A			2.23 ~ 4.45				
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%				
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
		±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	,	2500ms, 80ms at full load 230VAC /115VAC												
	HOLD UP TIME (Typ.)	15ms at full load 230VAC /115VAC												
	VOLTAGE RANGE Note.5	Note.5 90 ~ 305VAC 127 ~ 431VDC												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.98/115V	AC, PF>0.95/2	230VAC at full I	oad (Please re	fer to "Power F	actor Characte	eristic" curve)						
NPUT	EFFICIENCY (Typ.)	90%	90%	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%				
	AC CURRENT (Typ.)	4A / 115VAC 2A / 230VAC 1.2A / 277VAC												
	INRUSH CURRENT (Typ.)	COLD START 75A(twidth=570 μ s measured at 50% lpeak) at 230VAC												
	LEAKAGE CURRENT	<0.75mA / 277VAC												
	OVER CURRENT Note.4	95 ~ 108%												
	OTEN CONNENT NOTE.4	Protection type : Constant current limiting, recovers automatically after fault condition is removed												
DOTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed												
PROTECTION	0VED VOLTA OF	13.5 ~ 18V	17.5 ~ 21.5V	23.5 ~ 27.5V	27 ~ 34V	33 ~ 39V	43 ~ 49V	48 ~ 54V	55 ~ 63V	60 ~ 67V				
	OVER VOLTAGE	Protection type : Shut down and latch off o/p voltage, re-power on to recover												
	OVER TEMPERATURE	Shut down o/	p voltage, reco	overs automat	ically after ten	nperature goes	down							
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derat	ting Curve")										
	WORKING HUMIDITY	20 ~ 95% RH non-condensing												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH												
	TEMP. COEFFICIENT	±0.03%°C (0~50°C)												
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes												
		UL 1012, CAN/CSA-C22, 2 No. 107,1-01, UL 8750, CSA C22, 2 No. 250,0-08, TUV EN61347-1, EN61347-2-13 independent												
	SAFETY STANDARDS Note.7	(except for HLG-240H C type), UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67, J61347-1, J61347-2-13 approved												
SAFETY &	WITHSTAND VOLTAGE			G:2KVAC O/			, ,							
EMC	ISOLATION RESISTANCE			0M Ohms / 50		-								
0	EMC EMISSION	,					lass C (≥ 50%	load) : EN610	00-3-3					
	EMC IMMUNITY			•										
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A 207.9K hrs min. MIL-HDBK-217F (25°C)												
OTHERS	DIMENSION	207.9K nrs min. MiL-HDBK-217F (25 C) 244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H-C)												
OTHERS			, ,,		,		//	,	n-C)					
	PACKING	1.3Kg; 12pcs/16.6Kg/0.84CUFT(HLG-240-Blank/A/B) 1.23Kg; 12pcs/15.8Kg/1.16CUFT(HLG-240-C)												
NOTE	2. Ripple & noise are measure	 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 0.1 uf & 47 uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 												

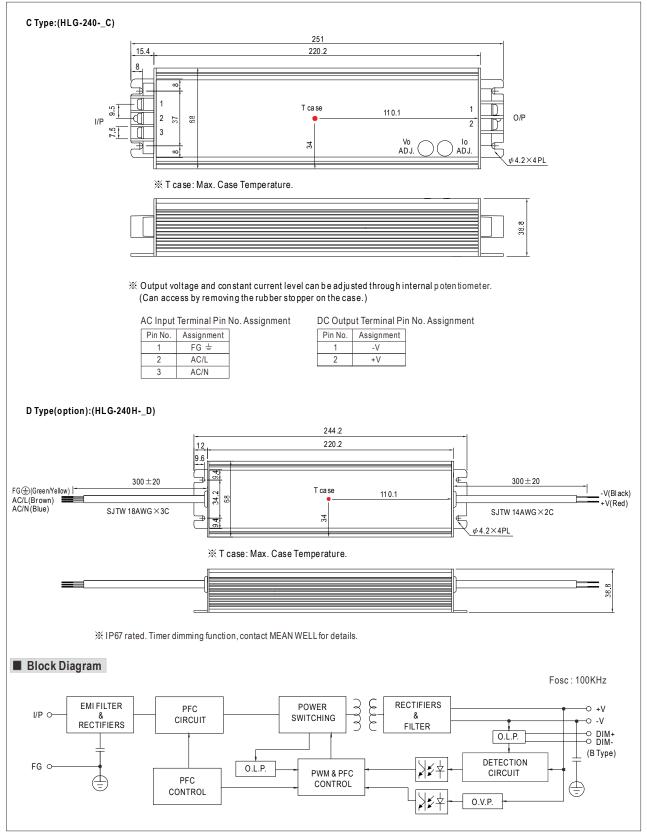
- 4. Constant current operation region is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design.
- 5. Derating may be needed under low input voltages. Please check the static characteristics for more details.
- 6. A type and C type only.
- 7. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.
- 8. 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.

 9. 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 again. 10. Refer to warranty statement.

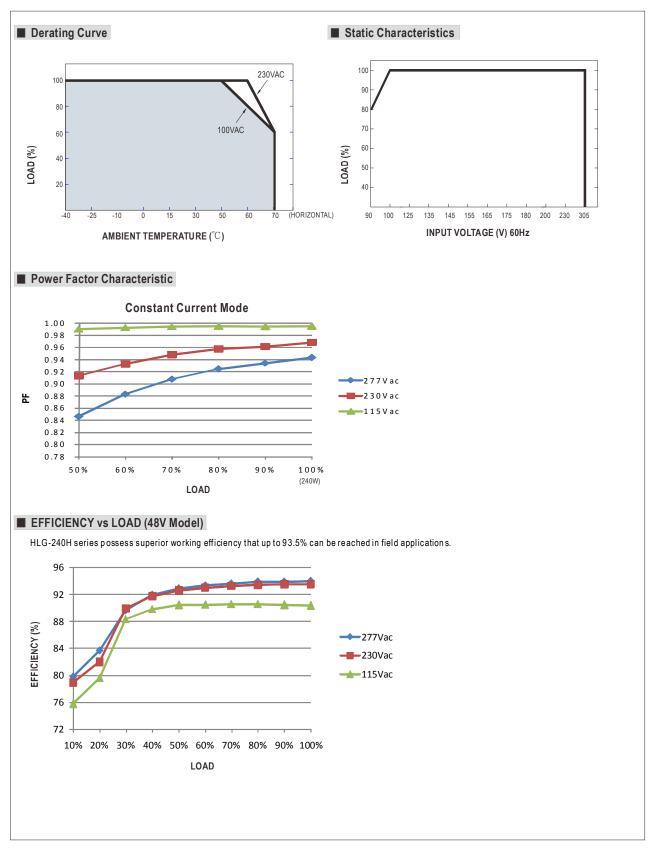












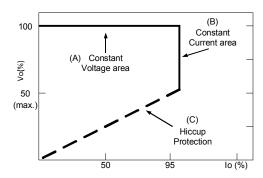


■ DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver".

A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).



Typical LED power supply I-V curve

■ DIMMING OPERATION (for B-type only)



- $\ensuremath{\mathbb{X}}$ Please DO NOT connect "DIM-" to "-V".
- ※ Reference resistance value for output current adjustment (Typical)

				-		,						
Resistance	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	$100\textrm{K}\Omega$	OPEN
value	Multiple drivers (N= driver quantity for synchronized dimming operation)	10KΩ/N	20KΩ/N	30KΩ/N	40KΩ/N	50KΩ/N	60KΩ <i>I</i> N	70KΩ/N	80KΩ/N	90KΩ/N	100K Ω/N	
Percentage	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

_			-								
Dimming value	1 V	2V	3 V	4 V	5 V	6 V	7 V	8 V	9 V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

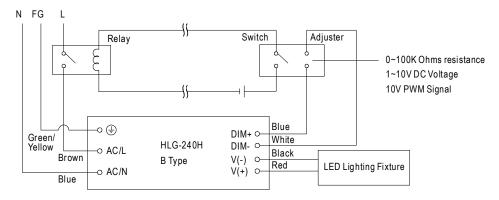
¾ 10 V PWM signal for output current a djustment (Typical): Frequency range: 100Hz ~ 3KHz

7. To VI Vin eight for euparonic adjustment (1) prodiff. I requested failing of the first of the											
Dutyvalue	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

**Using the built-in dimming function on B-type model can't turn the lighting fixture totally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.

※Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.

Dimming connection diagram for turning the lighting fixture ${\sf ON/OFF}$:



Using a switch and relay canturn ON/OFF the lighting fixture.

- 1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



