



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

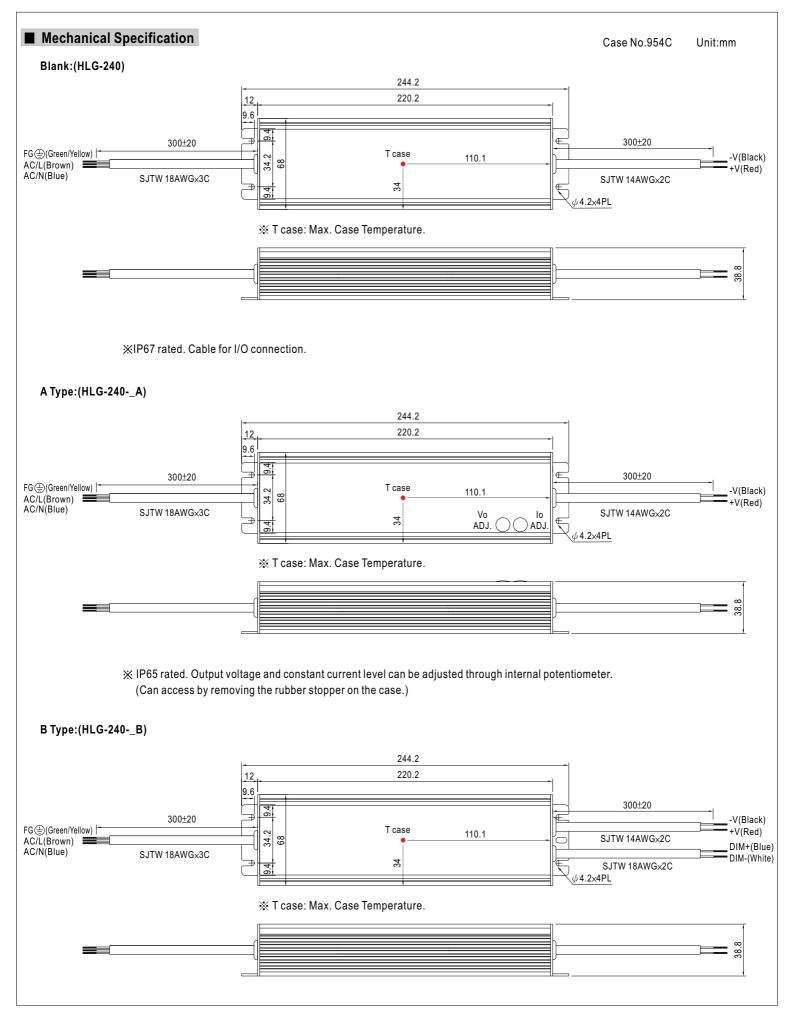
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- $B:IP67\ rated.\ Constant\ current\ level\ adjustable\ through\ output\ cable\ with\ 1\sim10\ Vdc\ or\ 10\ V\ PWM\ signal\ or\ resistance.$
- C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.
- D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

10. Refer to warranty statement.

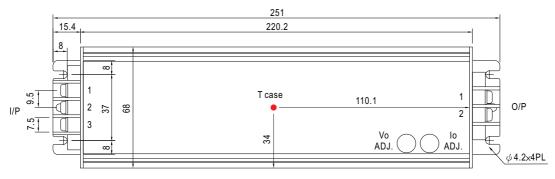
MODEL		HLG-240-12	UI C 240 45	HLG-240-20	HLG-240-24	HLG-240-30	HLG-240-36	HLG-240-42	HLG-240-48	HLG-240-54			
MODEL	DO VOLTA OF	_						_	_				
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4		7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V			
	RATED CURRENT	16A	15A	12A	10A	8A	6.7A	5.72A	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				22.4 ~ 25.6V		33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V			
OUTPUT	CURRENT ADJ. RANGE			potentiometer o									
		8 ~ 16A	7.5 ~ 15A	6 ~ 12A	5 ~ 10A	4 ~ 8A	3.3 ~ 6.7A	2.86 ~ 5.72A		2.23 ~ 4.45A			
	VOLTAGE TOLERANCE Note.3		±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%			
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME Note.8	2500ms, 80ms	500ms, 80ms at full load 230VAC /115VAC										
	HOLD UP TIME (Typ.)	15ms at full lo	ad 230VAC	/115VAC									
	VOLTAGE RANGE Note.5												
	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)					
INPUT	EFFICIENCY (Typ.)	90%	90%	92%	93%	93%	93.5%	94%	94%	94%			
	AC CURRENT (Typ.)	4A / 115VAC	2A / 230V	AC	•	•							
	INRUSH CURRENT (Typ.)	COLD START	75A/230VAC										
	LEAKAGE CURRENT	<0.75mA / 240VAC											
		95~108%											
	OVER CURRENT Note.4	Protection type: Constant current limiting, recovers automatically after fault condition is removed											
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed											
PROTECTION				23.5 ~ 27.5V		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											
		105°C ±5°C (TSW1) 95°C ±5°C (TSW1)											
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down											
	WORKING TEMP.		Refer to "Derat			, , , , , , , , , , , , , , , , , , , ,	<u>3</u>						
	WORKING HUMIDITY	,	non-condensir										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH											
LITTINOMILIA	TEMP. COEFFICIENT												
	VIBRATION	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes											
	VIDICATION	UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13 independent											
	SAFETY STANDARDS Note.7												
SAFETY &	WITHSTAND VOLTAGE	(except for HLG-240 C type), UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67 approved, J61347-1, J61347-2-13											
EMC	ISOLATION RESISTANCE												
LIVIC	EMC EMISSION	,	· ·	00M Ohms / 50			lass C (≧50%	lood) . TNG10	00.2.2				
	EMC IMMUNITY MTBF	-			EN01347, EN3	3024, light inut	ustry level (surç	ge 4KV), Criter	Id A				
OTHERS		207.9Khrs min. MIL-HDBK-217F (25°C)											
OTHERS	DIMENSION	244.2*68*38.8mm (L*W*H)(HLG-240-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240-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	 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 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. Derating may be needed under low input voltages. Please check the static characteristics for more details. Type A and type C only. Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. 							but please					
	Length of set up time is mea The power supply is consider complete installation, the fin	ered as a com	ponent that wi	Il be operated	in combination	with final equ	ipment. Since	EMC performa		ected by the			



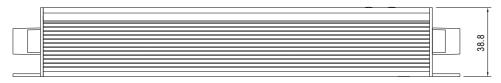








☆ T case: Max. Case Temperature.



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

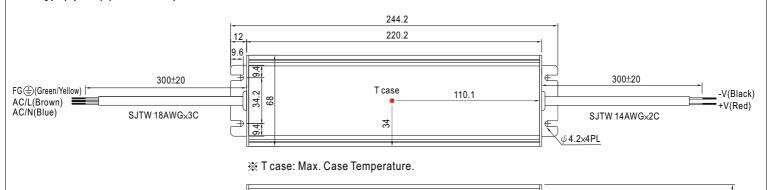
AC Input Terminal Pin No. Assignment

Pin No.	Assignment					
1	FG ±					
2	AC/L					
3	AC/N					

DC Output Terminal Pin No. Assignment

Pin No.	Assignment
1	-V
2	+V

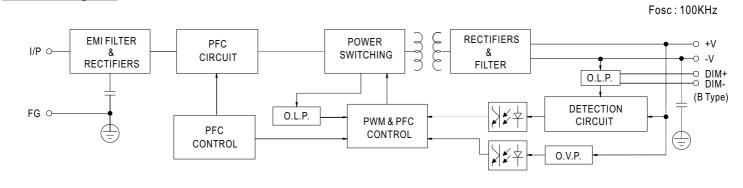
D Type(option):(HLG-240-_D)



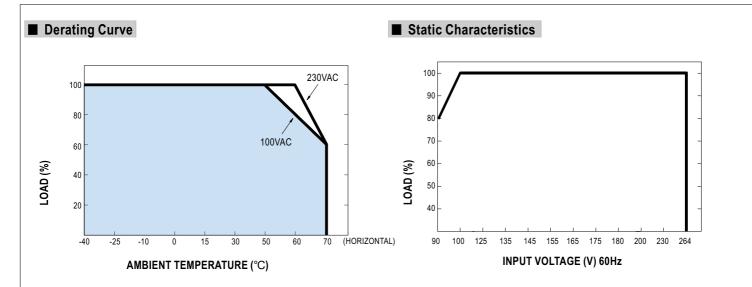


※ IP67 rated. Timer dimming function, contact MEAN WELL for details.

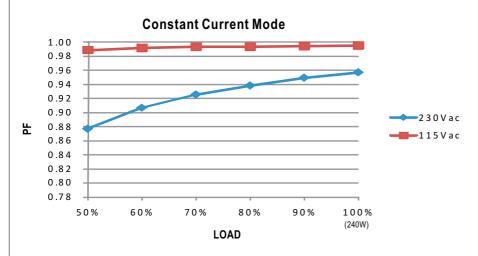






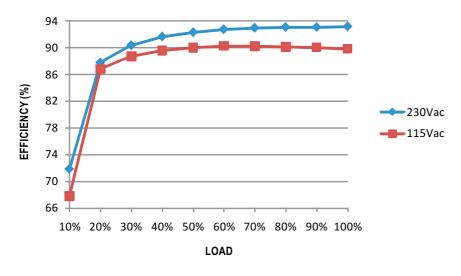


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HLG-240 series possess superior working efficiency that up to 94% can be reached in field applications.



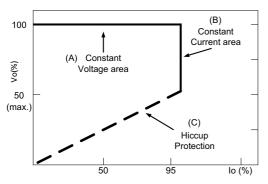


■ DRIVING METHODS OF LED MODULE

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

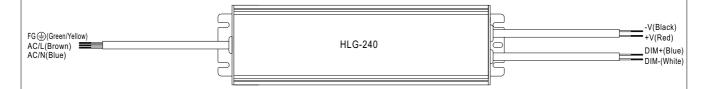
A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

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



- X Please DO NOT connect "DIM-" to "-V".
- X Reference resistance value for output current adjustment (Typical)

Resistance	Single driver	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60Κ Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
value	Multiple drivers (N=driver quantity for synchronized dimming operation)	10KΩ/N	20KΩ/N	30KΩ/N	40K Ω/N	50K Ω/N	60KΩ/N	70K Ω /N	80KΩ/N	90KΩ/N	100KΩ/N	
Percentage	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~105%

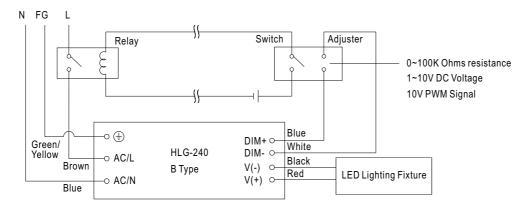
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~105%

※ 10V PWM signal for output current adjustment (Typical): Frequency range: 100Hz ~ 3KHz

Duty value	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%~105%

X 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.

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



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

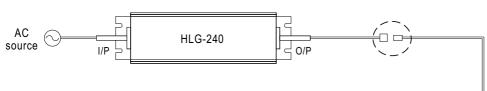
- $1. Output constant current level can be adjusted through output cable by connecting a resistance or 1 \\ ^{\sim}10 \\ ^{\vee}V C or 10 \\ ^{\vee}V PWM signal between DIM+ and DIM-.$
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

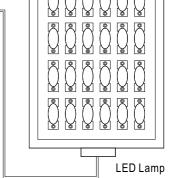
Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-240 to operate in dry/wet/damp or outdoor environment.

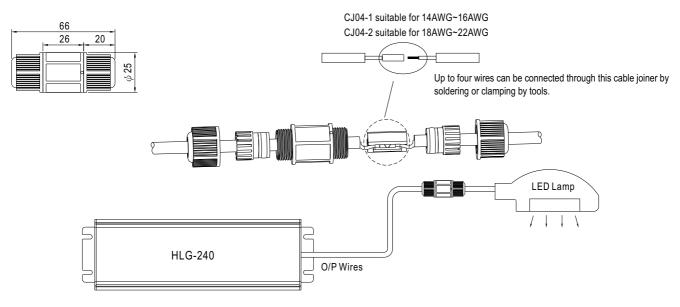


Size	Pin Configuration (Female)						
M12	00	000					
IVIIZ	4-PIN	5-PIN					
	5A/PIN	5A/PIN					
Order No.	M12-04	M12-05					
Suitable Current	10A max.	10A max.					

Size	Pin Configuration (Female)				
M4 <i>E</i>	00				
M15	2-PIN				
	12A/PIN				
Order No.	M15-02				
Suitable Current	12A max.				



O Cable Joiner



%CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No.: CJ04-1, CJ04-2.

