



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)















Blank: IP67 rated. Cable for I/O connection.

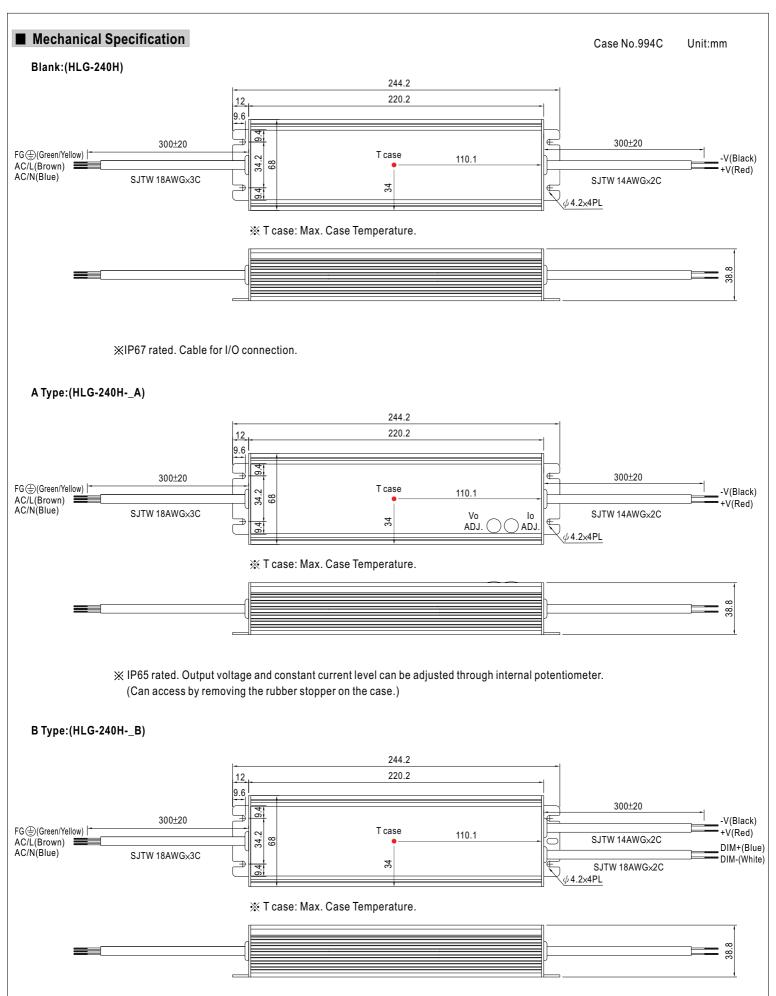
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.
- C: Terminal block for I/O connection. Output voltage and constant current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

SPECIFICATION

10. Refer to warranty statement.

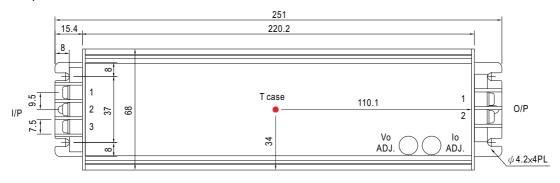
MODEL		HLG-240H-12	HLG-240H-15	HLG-240H-20	HLG-240H-24	HLG-240H-30	HLG-240H-36	HLG-240H-42	HLG-240H-48	HLG-240H-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.4	6 ~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V	
	RATED CURRENT	16A	15A	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	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
ОИТРИТ	VOLTAGE ADJ. RANGE Note.6				22.4 ~ 25.6V		33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V		
				potentiometer			00.0	100 .00	11.10 01.121	100 0	
	CURRENT ADJ. RANGE	8 ~ 16A	7.5 ~ 15A	6 ~ 12A	5 ~ 10A	4 ~ 8A	3.3 ~ 6.7A	2.86 ~ 5.72A	2 5 ~ 5A	2.23 ~ 4.45	
	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%	
		±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
				230VAC /115V		20.070	_0.070	_0.070	20.070	20.070	
	,		ad 230VAC		AC						
	HOLD UP TIME (Typ.)										
		90 ~ 305VAC 47 ~ 63Hz	127 ~ 43	IVDC							
	FREQUENCY RANGE		/A.C. DE>0.0E/	2201/40 -+ 6.11	land (Diana re	for to "Dower I	Tantas Chasante	mintin" numun)			
INPUT	POWER FACTOR (Typ.)				· `	I	Factor Characte	1	00.50/	0.40/	
INPUI	EFFICIENCY (Typ.)	90%	90%	92%	93%	93%	93%	93%	93.5%	94%	
	AC CURRENT (Typ.)	4A / 115VAC	2A / 230V	AC 1.2A	277VAC						
	INRUSH CURRENT (Typ.)		75A/230VAC								
	LEAKAGE CURRENT	<0.75mA / 27	/VAC								
OVER CURRENT Note.4		95 ~ 108%									
		Protection type: Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	-		matically after		is removed					
PROTECTION	OVER VOLTAGE	13.5 ~ 18V	17.5 ~ 21.5V	23.5 ~ 27.5V	27 ~ 34V	33 ~ 39V	43 ~ 49V	48 ~ 54V	55 ~ 63V	60 ~ 67V	
	OVER VOLIAGE	Protection type: Shut down and latch off o/p voltage, re-power on to recover									
	OVER TEMPERATURE	105℃ ±5℃ (TSW1) 95℃ ±5℃ (TSW1)									
	OVER TEINFERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down									
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/℃ (0	~50°C)								
	VIBRATION	10 ~ 500Hz, 5	G 12min./1cyc	cle, period for	72min. each al	ong X, Y, Z axe	s				
		UL1012, CAN	I/CSA-C22.21	No. 107.1-01,	UL8750, CSA	C22.2 No. 250	0.0-08, TUV EN	I61347-1, EN6	31347-2-13 inc	lependent	
	SAFETY STANDARDS Note.7	(except for H	LG-240H C typ	pe), UL60950-	1, UL8750, TU	JV EN60950-1	, IP65 or IP67	approved, J61	347-1, J61347	7-2-13	
SAFETY &	WITHSTAND VOLTAGE			G:1.88KVAC							
EMC	ISOLATION RESISTANCE			00M Ohms / 50							
	EMC EMISSION	, .	-,				Class C (≧50%	load) : EN610	00-3-3		
	EMC IMMUNITY			•			ustry level (sur				
	MTBF	·		K-217F (25°€)			uon j 1010. (oui j	<i>yo,</i> oo.			
OTHERS	DIMENSION					251*68*38 8mn	n (I *W*H)(HI G	-240H-C)			
O TITLE NO	PACKING	244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H-C) 1.3Kg; 12pcs/16.6Kg/0.84CUFT(HLG-240-Blank/A/B) 1.23Kg; 12pcs/15.8Kg/1.16CUFT(HLG-240-C)									
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up Constant current operation in reconfirm special electrical in Derating may be needed up Type A and type C only. Safety and EMC design refield. Length of set up time is me The power supply is consider complete installation, the fin	ly mentioned a ed at 20MHz o tolerance, line region is within requirements for inder low input er to EN60598 assured at cold ered as a com	are measured at f bandwidth by regulation and 50% ~100% or some specific voltages. Please-1, subject 875 first start. Turn ponent that wi	at 230VAC inp v using a 12" to d load regulation rated output wind ic system desing se check the second for (UL), CNS15 ining ON/OFF to the second in the second the second in the second the second in the second the second in the second in the second the second in the second in the second in the second the second in the sec	out, rated load wisted pair-win on. Oltage. This is gn. tatic character 5233, GB7000 the power sup in combination	and 25°C of a e terminated when the suitable opistics for more in it.1, FCC part18 ply may lead to with final equal to the with the suitable of the suitab	mbient temperarith a 0.1 uf & 4 peration region details. 3. o increase of this peration increase of the peration region.	ature. 7uf parallel cap for LED relate ne set up time. EMC performa	pacitor. d applications,	·	



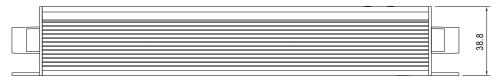








T case: Max. Case Temperature.



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

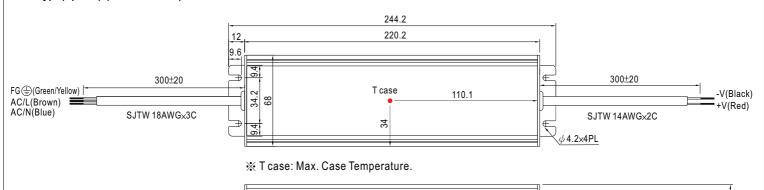
AC Input Terminal Pin No. Assignment

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

DC Output Terminal Pin No. Assignment

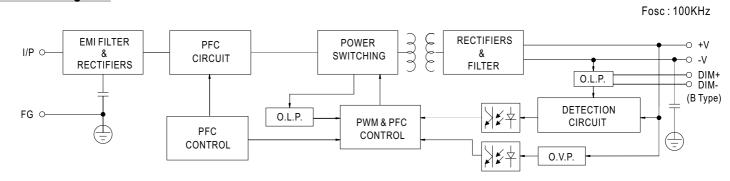
Pin No.	Assignment
1	-V
2	+V

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

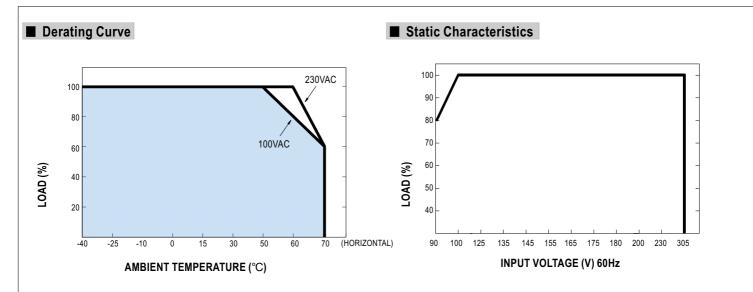


※ IP67 rated. Timer dimming function, contact MEAN WELL for details.

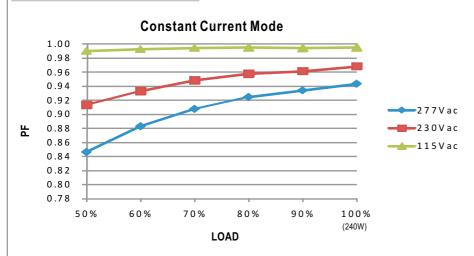
■ Block Diagram





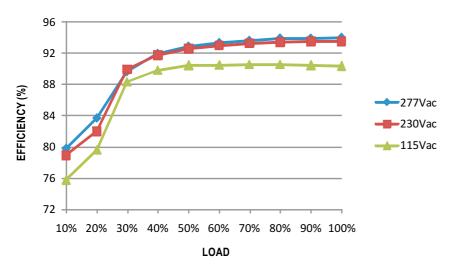


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

 $HLG-240H\ series\ possess\ superior\ working\ efficiency\ that\ up\ to\ 93.5\%\ can\ be\ reached\ in\ field\ applications.$



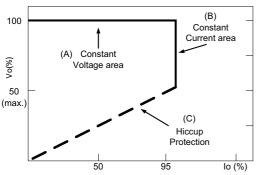


■ DRIVING METHODS OF LED MODULE

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

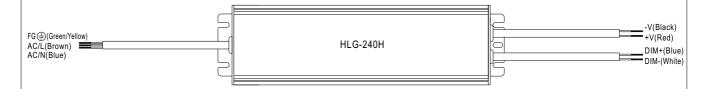
A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

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



- ※ 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%

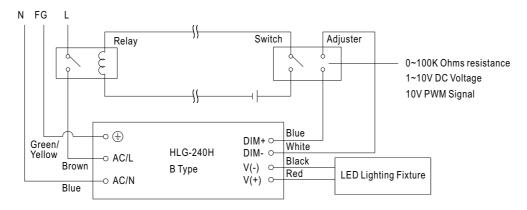
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~105%

※ 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 $\ensuremath{\mathsf{ON}}/\ensuremath{\mathsf{OFF}}$:



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

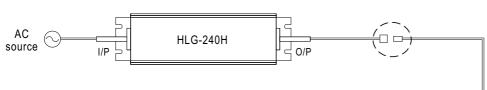
- 1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

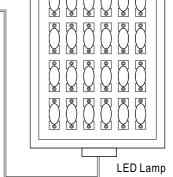
Waterproof connector

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

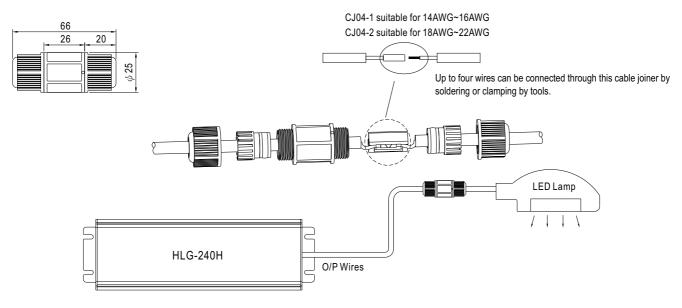


Size	Pin Configuration (Female)						
M12	00	000					
IVI I Z	4-PIN	5-PIN					
	5A/PIN	5A/PIN					
Order No.	M12-04	M12-05					
Suitable Current	10A max.	10A max.					

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



O Cable Joiner



XCJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No.: CJ04-1, CJ04-2.



