



■ 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















HLG-240H-12 A

TAIWAN

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

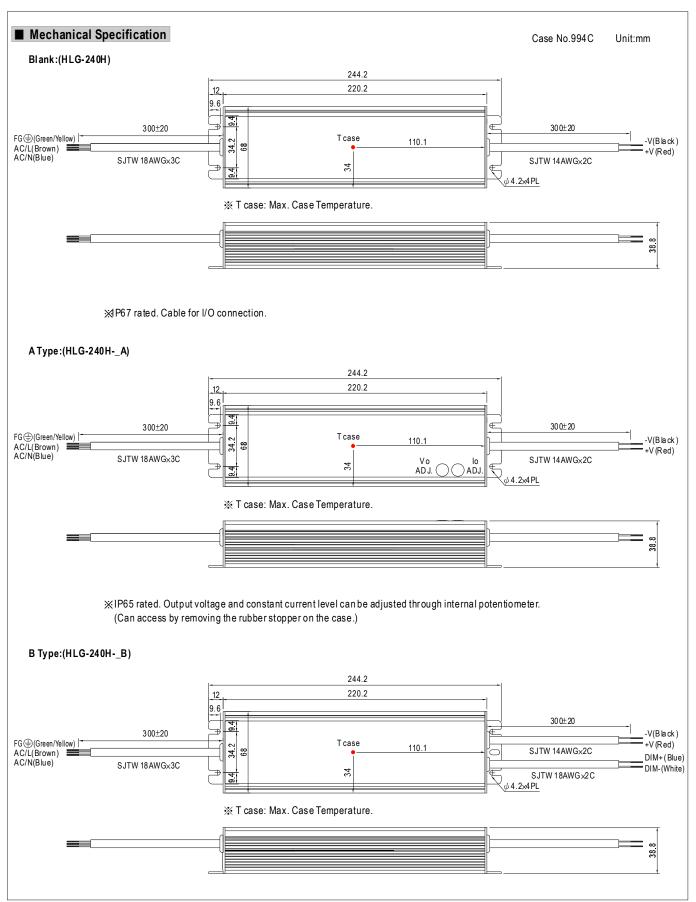
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10 V PWM signal or resistance.
- C: Terminal block for I/O connection. Output voltage and constant current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

SPECIFICATION

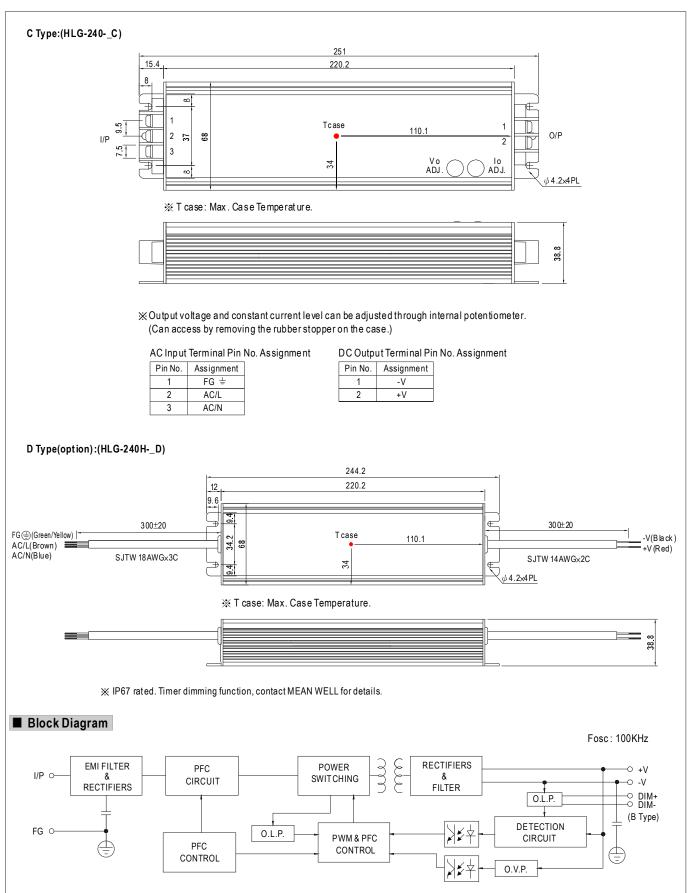
10. Refer to warranty statement

MODEL	ATTON	HLG-240H-12	HI G-240H-15	HLG-240H-20	HLG-240H-24	HLG-240H-30	HLG-240H-36	HLG-240H-42	HLG-240H-48	HLG-240H-54	
WIODEL	DO VOLTA OF				_		_	_	_		
	DC VOLTAGE	12V	15V	20V	24V	30 V	36V	42V	48 V	54 V	
	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	24 0W	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	
DUTPUT	CURRENT ADJ. RANGE			oot entiom eter A		· · ·					
		8 ~ 16A	7.5 ~ 15A	6~12A	5 ~ 10A	4 ~ 8A	3.3 ~ 6.7A	2.86 ~ 5.72A		2.23~4.4	
	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 Note.8	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.9	2500ms, 80ms at full load 230VAC /115VAC									
	HOLD UP TIME (Typ.)	15ms at full lo	ad 230VAC	/115VAC							
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431	1VDC							
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.98/115\	AC, PF>0.95/2	230 VAC at full I	oad (Please re	efer to "Power F	actor Characte	eristic" curve)			
NPUT	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.)	COLD START	75A(twidth=570	μs measured a	it 50% Ipeak) at	230VAC					
	LEAKAGE CURRENT	<0.75mA/27	7VAC								
		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									
ROTECTION	OHORT OIROOTI			23.5 ~ 27.5V		33 ~ 39V	43 ~ 49V	48 ~ 54V	55 ~ 63V	60 ~ 67V	
NOTEOTION	O VER VOLTAGE						L		00 001	00 0.1	
		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										
	WORKING TEMP	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down -40 ~ +70°C (Refer to "Derating Curve")									
	WORKING TEMP.	20 ~95% RH non-condensing									
W/IDANMENT	WORKING HUMIDITY	•									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/℃ (0									
	VIBRATION			le, period for 7							
	SAFETY STANDARDS Note.7	UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750, CSA C22.2 No. 250.0-08, TUV EN61347-1, EN61347-2-13 independent									
		•		, .			, IP65 or IP67,	J61347-1, J6	1347-2-13 арр	roved	
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	(VAC I/P-F	G:2KVAC O	P-FG:0.5KVA	C					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms / 50	0VDC / 25°C /	70% RH					
	EMC EMISSION	Complia nce to	EN55015, EN	155022 (CISPR	22) Class B, E	N61000-3-2 C	class C (≧50%	load); EN610	00-3-3		
	EMC IMMUNITY	Compliance to	EN61000-4-2	2,3,4,5,6,8,11, 1	EN61547, EN5	5024, light ind	ustry level (surç	ge 4 KV), criter	ia A		
	MTBF	207.9K hrs m	n. MIL-HDE	K-217F (25°C)						
OTHERS	DIMENSION	244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H-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	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 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but							but placea			
	4. Constant current operation in reconfirm special electrical 5. Derating may be needed ur 6. A type and C type only. 7. Safety and EMC design ref. 8. Length of set up time is me 9. The power supply is conside complete installation, the fin 10. Refer to warranty statemer.	requirements for nder low input of er to EN60598 asured at cold ered as a com al equipment r	or some specification of specification o	ic system desi se check the s 50(UL), CNS15 hing ON/OFF t Il be operated	gn. tatic character 5233, GB7000 he power sup in combinatior	istics for more 1, FCC part18 ply may lead to with final equ	details. 3. Dincrease of the ipment. Since	ne set up time. EMC performa		·	

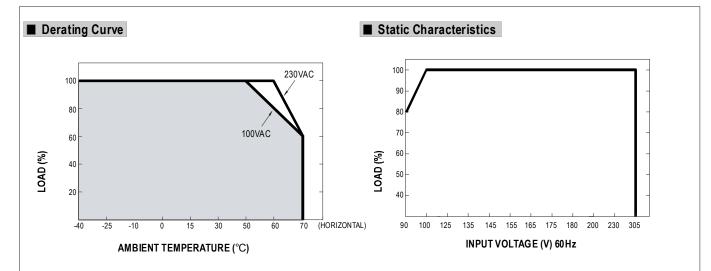




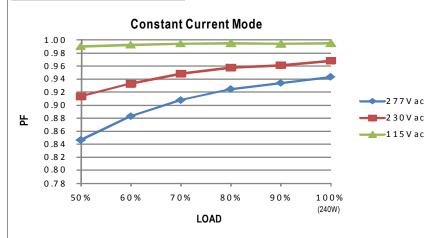






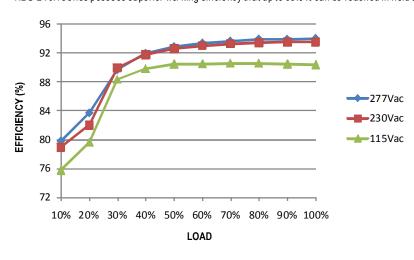


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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



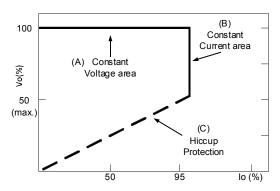


■ DRIVING METHODS OF LED MODULE

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 (for B-type only)



※ Please DO NOT connect "DIM-" to "-V".

* Reference resistance value for output current adjustment (Typical)

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

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

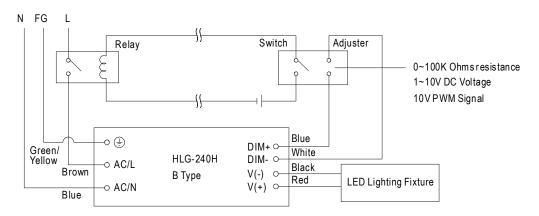
※ 10V PWM signal for output current adjustment (Typical): Frequency range: 100 Hz ~ 3KHz

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%~108%

**Wusing 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 ON/OFF:



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

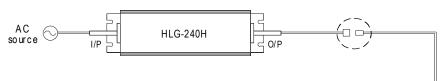
- 1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2.The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

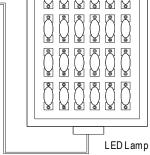
Waterproof connector

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

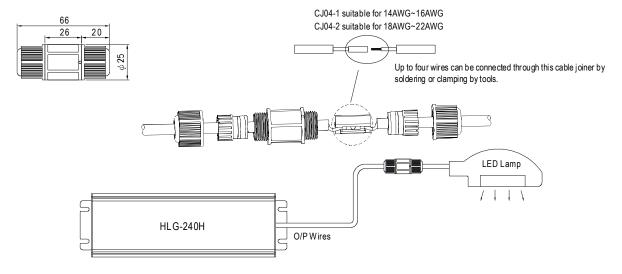


Size	Pin Configuration (Female)						
M12	00	000					
IVI I Z	4-PIN	5-PIN					
	5A/P IN	5A/PIN					
Order No.	M12-04	M12-05					
Suitable Current	10A max.	10A max.					

Size	Pin Configuration (Female)					
M 15	00					
IVI IS	2-PIN					
	12A/P IN					
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 or der No.: CJ04-1, CJ04-2.



