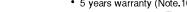




Features :

- 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.

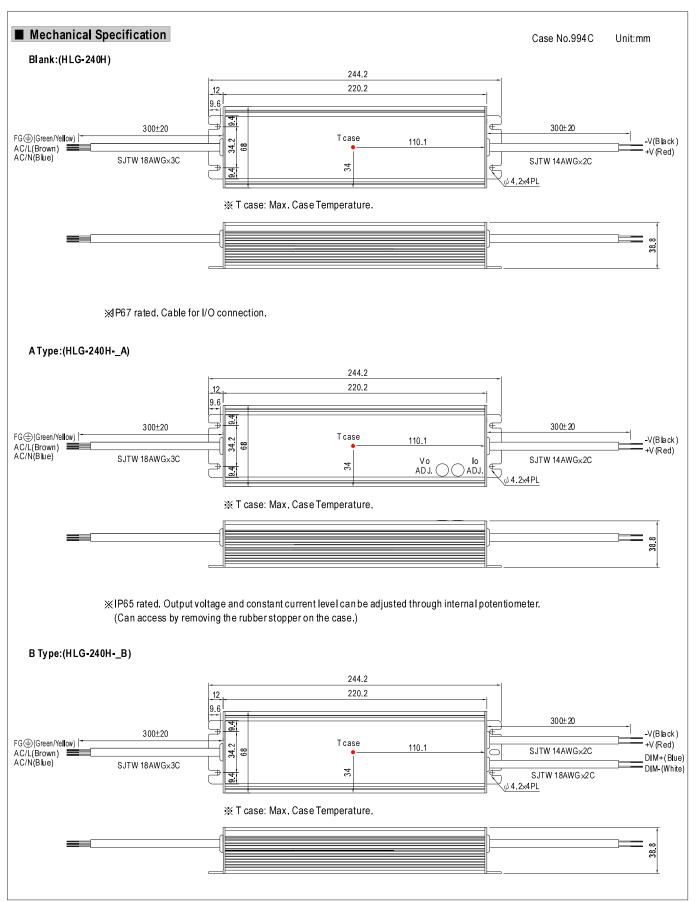
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.
- C: Terminal block for I/O connection. Output voltage and constant current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

SPECIFICATION

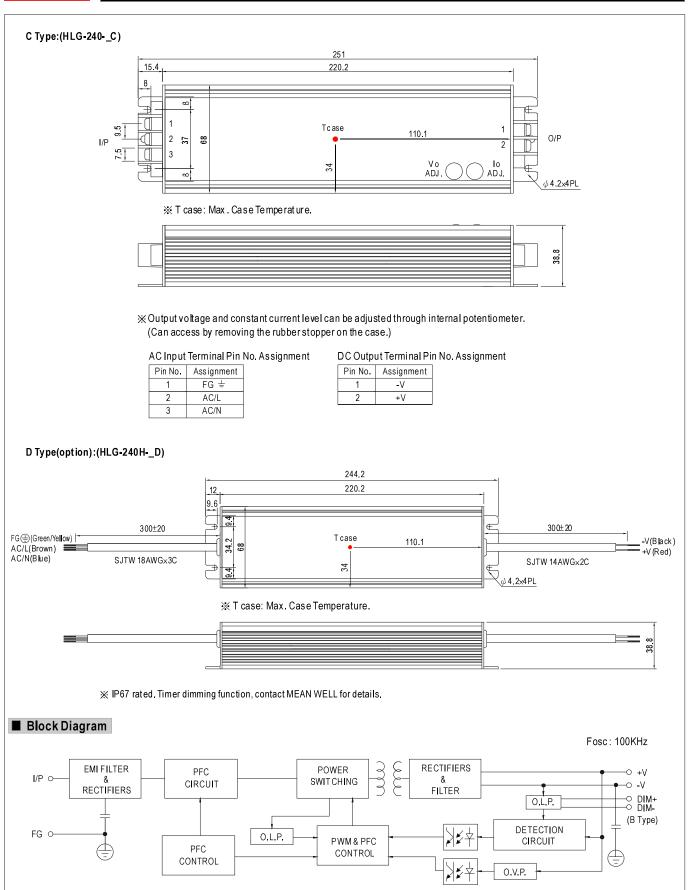
MODEL		HLG-240H-12	HLG-240H-15	HLG-240H-20	HLG-240H-24	HLG-240H-30	HLG-240H-36	HLG-240H-42	HLG-240H-48	HLG-240H-54[
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48 V	54 V			
ОИТРИТ	CONSTANT CURRENT REGION Note.4	6 ~1 2V	7.5 ~ 15V	10~20V	12~24V	15 ~ 30V	18 ~ 36V	21 ~ 4 2V	24 ~ 48V	27 ~ 54V			
	RATED CURRENT	16A	15A	12A	10A	8A	6.7A	5.72A	5A	4.45A			
	RATED POWER	192W	225W	240W	240W	240W	241.2 W	240.24W	24 0W	240.3W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150m Vp-p	150mVp-p	200mVp-p	250m Vp-p	250mVp-p	250mVp-p	350mVp-p			
	VOLTAGE ADJ. RANGE Note.6	11.2 ~ 12.8V	14 ~ 16V	18.6 ~ 21.4V	22.4 ~ 25.6V	28 ~ 32V	33.5 ~ 38.5V	39 ~ 45V	44.8 ~ 51.2V	50 ~ 57V			
	CUDDENT AD L DANCE	Can be adjusted by internal potentiometer A type and C type only											
	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	±2.5%	±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%			
	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	s at full load	230VAC /115V	'AC								
	HOLD UP TIME (Typ.)	15ms at full lo	ad 230VAC	/115VAC									
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 43	1VDC									
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.98/115\	PF>0,98/115VAC, PF>0,95/230 VAC at full load (Please refer to "Power Factor Characteristic" 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	μ s measured a	at 50% Ipeak) at	230VAC							
	LEAKAGE CURRENT	<0.75mA/277VAC											
PROTECTION	O VER C URRENT Note.4	95~108%											
		Protection type: Constant current limiting, recovers automatically after fault condition is removed											
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed											
	OVERVOLTAGE	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											
	OVED TEMPED ATURE	105°C ±5°C (TSW1) 95°C ±5°C (TSW1)											
	O VER TEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down											
	WORKING TEMP.	-40 ~ +70°C (Refer to "Dera	ting Curve")									
	WORKING HUMIDITY	20~95% RH	n on-con densir	ng									
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)											
	VIBRATION	10 ~ 500 Hz, 5	G 12min /1cyc	le, period for	72min, each al	ong X, Y, Z axe	S						
	CAFETY CTANDARDO N. C. 7	UL 1012, CAN/CSA-C22,2 No. 107.1-01, UL8750, CSA C22,2 No. 250.0-08, TUV FN61347-1, FN61347-2-13 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	I/P-O/P:3,75	KVAC I/P-F	G:2KVAC O	/P-FG:0.5KVA	С							
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	Compliance to	EN55015, EN	155022 (CISPF	(22) Class B, E	N61000-3-2 C	Class C (≧50%	load) ; EN610	00-3-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4 KV), criteria A											
	MTBF	207,9K hrs min. MJL-HDBK-217F (25°C)											
THERS	DIMENSION	244.2*68*38.8	3mm (L*W*H)(HLG-240H-Bla	nk/A/B) 2	51*68*38.8mm	ı (L*W*H)(HLG	-240H-C)					
	PACKING	1.3 Kg; 12 pcs/	16.6Kg/0.84C	UFT(HLG-240-	Blank/A/B)	1.23Kg; 12p	cs/15.8Kg/1.16	CUFT (HLG-24	0-C)				
NOTE	Ripple & noise are measure Tolerance : includes set up Constant current operation in reconfirm special electrical reconfirms.	1.3Kg; 12pcs/16.6Kg/0.84CUFT(HLG-240-Blank/A/B) 1.23Kg; 12pcs/15.8Kg/1.16CUFT(HLG-240-C) y mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature, d at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor, olerance, line regulation and load regulation, egion is within 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please equirements for some specific system design, der low input voltages. Please check the static characteristics for more details.											

- A type and C type only.
 Safety and EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.
 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.
 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.

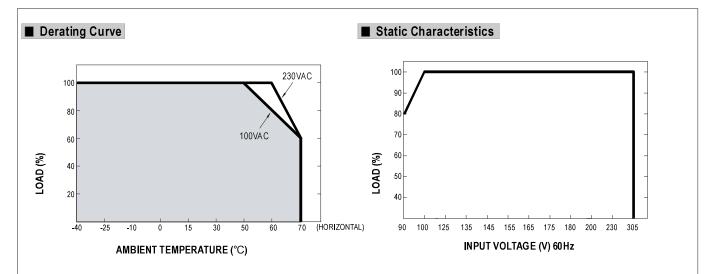




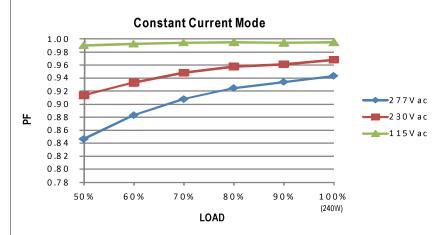






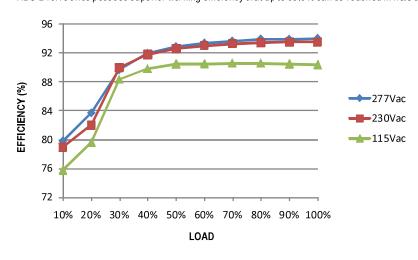


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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



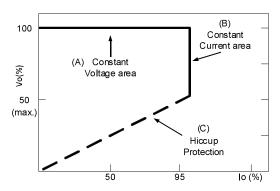


■ DRIVING METHODS OF LED MODULE

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)



- \times Built-in 3 in 1 dimming function, IP67 rated. 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-.
- ※ Please DO NOT connect "DIM-" to "-V".
- ** Reference resistance value for output current adjustment (Typical)

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

 \times 1 ~ 10V dimming function for output current adjustment (Typical)

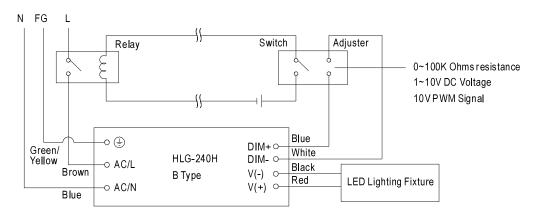
Dimming value	1V	2V	3 V	4 V	5 V	6 V	7 V	8V	9 V	10 V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

※ 10V PWM signal for output current adjustment (Typical): Frequency range: 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%~108%

- XUsing 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.

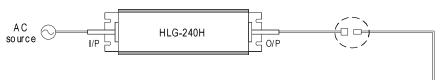
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2.The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

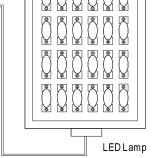
Waterproof connector

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

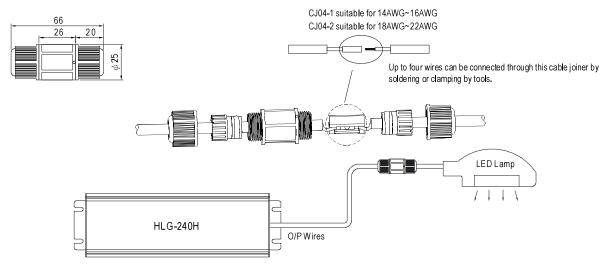


Size	Pin Configuration (Female					
M12	00	000				
IVITZ	4-PIN	5-PIN				
	5A/PIN	5A/PIN				
Order No.	M12-04	M12-05				
Suitable Current	10A max.	10A max.				

Pin Configuration (Female)					
$\bigcirc \circ$					
2-PIN					
12A/PIN					
M15-02					
12A max.					



O Cable Joiner



 \times CJ04 cable joiner can be purchased independently for user's own assembly. MEA N WELL order No.: CJ04-1, CJ04-2.

\bigcirc Junction Box(Option)

