### HLG-240H series



- 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
- Type HL LED Driver for use in Class I , Division 2 hazardous location luminaires
- 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)



₩ SELV IP65 IP67 PC Nus ً⊖ \F/ (F) 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.

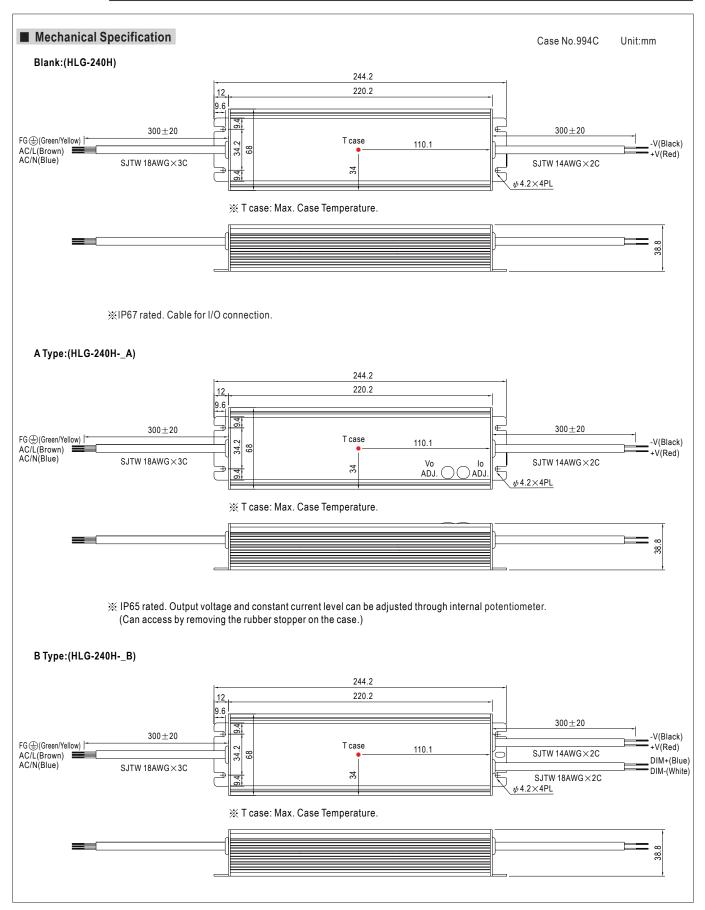
D (option, safety pending) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

#### SPECIFICATION

MODEL		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	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		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		±2.0%	±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%			
		1000ms,80m		00ms,80ms/2				1					
	HOLD UP TIME (Typ.)		ad 230VAC/										
	(),	90 ~ 305VAC 127 ~ 431VDC											
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)		AC PE>0 95/2	230VAC at full I	oad (Please re	fer to "Power F	actor Characte	eristic" curve)					
	TOTAL HARMONIC DISTORTION	PF>0.98/115VAC, PF>0.95/230VAC at full load (Please refer to "Power Factor Characteristic" curve) THD< 20% when output loading ≥ 50% at 115VAC/230VAC input and output loading ≥ 75% at 277VAC input											
INPUT	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);s measured at 50% lpeak) at 230VAC										
	MAX. No. of PSUs on 16A 2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC												
	CIRCUIT BREAKER	2 units (circui	t breaker of typ	e B) / 4 units (	circuit breaker	of type C) at 2	30VAC						
	LEAKAGE CURRENT <0.75mA/277VAC												
PROTECTION	OVER CURRENT Note.4	95~108%											
		Protection type : Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed											
	SHORT CIRCUIT	Hiccup mode,	recovers auto	matically after	fault condition	is removed			_	-			
	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					ower on to reco							
	OVER TEMPERATURE	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%/°C (0~50°C)											
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes											
SAFETY & EMC	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											
	CALETT CLANDARDO NOLE.	(except for HLG-240H C type), UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67, J61347-1, J61347-2-13 appr											
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC											
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH											
	EMC EMISSION	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≧50% load) ; EN61000-3-3											
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria B											
OTHERS	MTBF	207.9K hrs m	n. MIL-HDB	K-217F (25°C)									
	DIMENSION	244.2*68*38.8	3mm (L*W*H)(I	HLG-240H-Bla	nk/A/B) 2	51*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	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>Please refer to "DRIVING M</li> <li>Derating may be needed ur</li> <li>A type and C type only.</li> <li>Safety and EMC design reft</li> <li>Length of set up time is me.</li> <li>The power supply is considic complete installation, the fin</li> <li>Refer to warranty statement</li> </ol>	d EMC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. r supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. warranty statement. requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently											

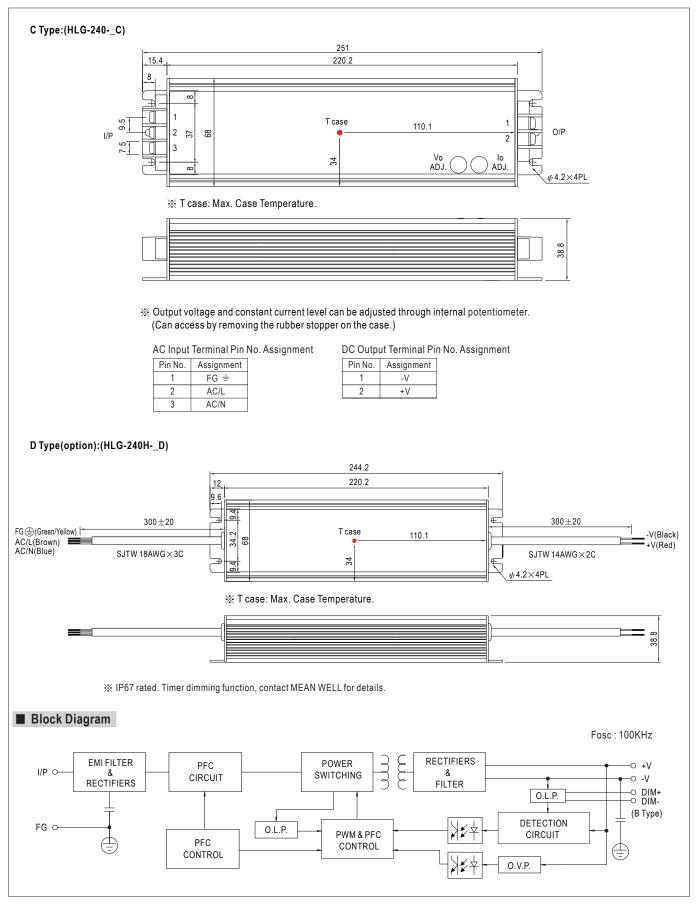


# HLG-240H series



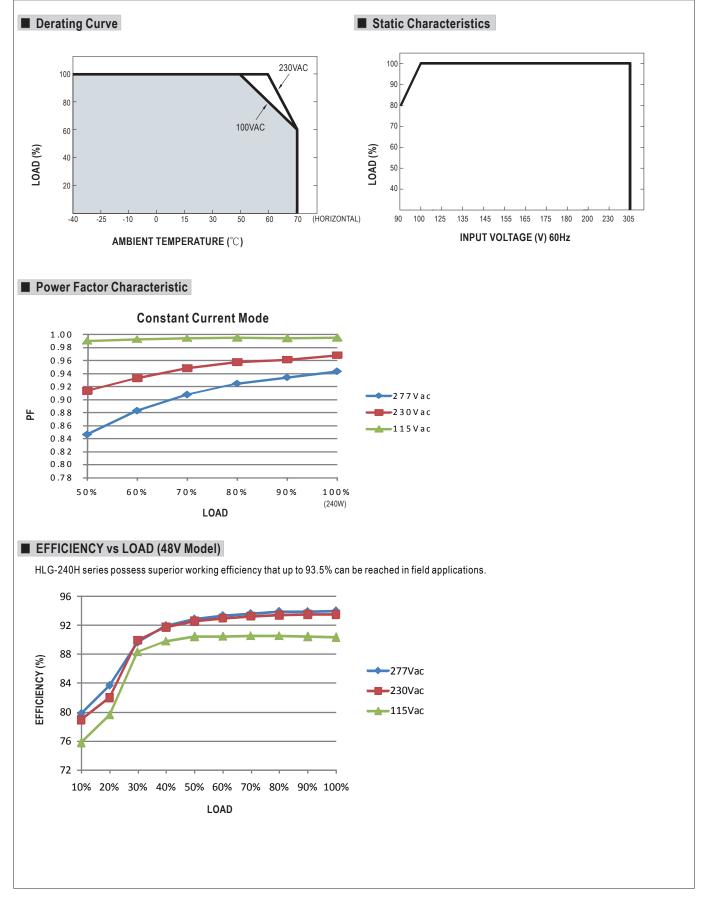


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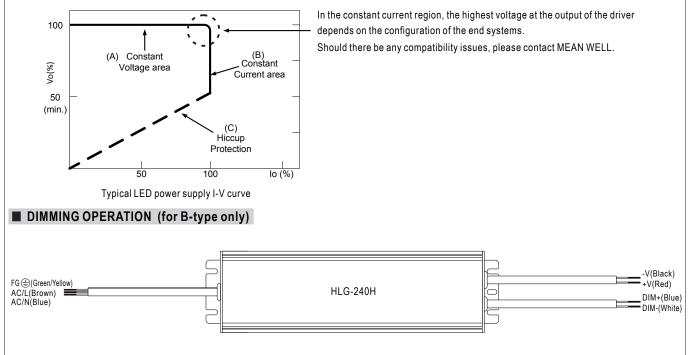
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#### DRIVING METHODS OF LED MODULE

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).



% 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".

 $\% \ {\rm Reference\ resistance\ value\ for\ output\ current\ adjustment\ (Typical)}$ 

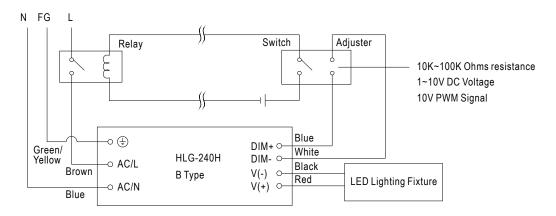
value Multiple drivers (Netriver quantity for synchronized dimming operation) 10K Ω/N 20K Ω/N 30K Ω/N 40K Ω/N 50K Ω/N 60K Ω/N 70K Ω/N 80K Ω/N 90K Ω/N 100K Ω/N	Resistance	Single driver	10KΩ	<b>20Κ</b> Ω	<b>30Κ</b> Ω	<b>40K</b> Ω	50KΩ	60KΩ	<b>70Κ</b> Ω	<b>80K</b> Ω	<b>90Κ</b> Ω	$100 \text{K}\Omega$	OPEN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

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%~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%

% 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 ON/OFF :

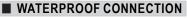


Using a switch and relay can turn ON/OFF the lighting fixture.

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.



# HLG-240H series



 $\bigcirc$  Waterproof connector

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

