



#### ■ 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























### HLG-240-12 A

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

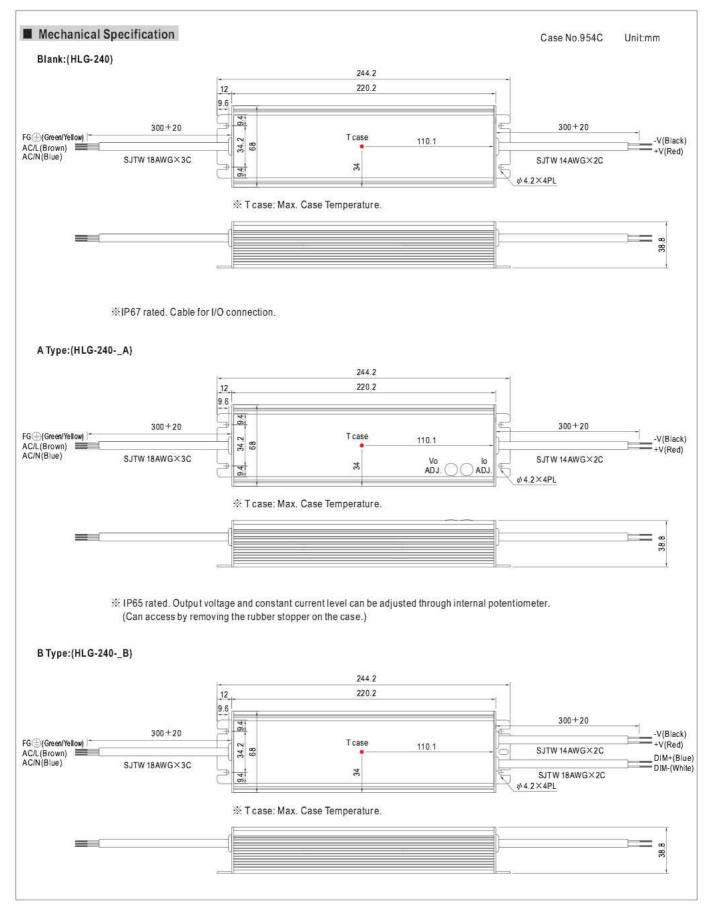
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- $B: IP67\ rated.\ Constant\ current\ level\ adjustable\ through\ output\ cable\ with\ 1\sim10Vdc\ or\ 10V\ PWM\ signal\ or\ resistance.$
- C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal
- D (option, safety pending): IP67 rated. Timer dimming function, contact MEAN WELL for details.

MODEL		HLG-240-12	HLG-240-15	HLG-240-20	HLG-240-24	HLG-240-30	HLG-240-36	HLG-240-42	HLG-240-48	HLG-240-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54 V			
	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	150 mV p-p	150 mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-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 ~ 32 V	33.5 - 38.5V	39 - 45V	44.8 ~ 51.2V	50 ~ 57V			
DUTPUT	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type and C type only											
		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	+2.0%	+1.5%	+1.0%	+0.5%	+0.5%	+0.5%	+0.5%	+0.5%	+0.5%			
	SETUP, RISE TIME Note.8	2500ms, 80m	s at full load	230VAC /115V	/AC	- indicatoring	I i diaminosis		- Summer				
	HOLD UP TIME (Typ.)	15ms at full lo	ad 230VAC	/115VAC									
	VOLTAGE RANGE Note.5	90 ~ 264 VAC	127 ~ 37	3VDC									
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.98/115\	/AC. PF>0.95/	230VAC at full	load (Please re	efer to "Power	Factor Characte	eristic* curve)					
NPUT	EFFICIENCY (Typ.)	90%	90%	91.5%	92.5%	92.5%	92.5%	92.5%	93%	93.5%			
	AC CURRENT (Typ.)	4A/115VAC	2A/230	/AC	1000000000	1.201000	Lorenteer	Limmanuscu	I A TOTAL CONTROL OF THE PARTY	1.000000			
	INRUSH CURRENT (Typ.)	COLD START 75A(twidth=570;; s measured at 50%   peak) at 230VAC											
	LEAKAGE CURRENT	<0.75mA/24	<0.75mA / 240VAC										
227110702 00		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	SHORT CIRCUIT   Hiccup mode, recovers automatically after rault condition is removed												
	OVER VOLTAGE			and latch off or			1-17001	1	1	60 ~ 67V			
	OVER TEMPERATURE			overs automat			· · · · · · · · · · · · · · · · · · ·						
	WORKING TEMP.		Refer to "Dera		nouny unter ter	iipoiataio god	10 40111						
	WORKING HUMIDITY												
ENVIRONMENT	STORAGE TEMP., HUMIDITY	20 ~ 95% RH non-condensing -40 ~ +80°C , 10 ~ 95% RH											
EN SINOSHIELDI	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)											
	VIBRATION			ole posied for	77 min onch al	V V 7							
	VIBRATION	VI. 100		cle, period for	and the second	A STATE OF THE PARTY OF THE PAR	Aller and a serious management and a serious	1549474 FNIS	1247 0 12 10	lo a co dool			
	SAFETY STANDARDS Note.7						0.0-08, TUV EN 1P65 or IP67, J						
SAFETY &	WITHSTAND VOLTAGE			G:2KVAC O			11 00 01 11 01,0	01047 1,0010	7+1 2 ТО ОРРІП	3700			
EMC	ISOLATION RESISTANCE			00M Ohms / 50									
	EMC EMISSION	12.27					Class C (≧ 50%	load) · EN610	00-3-3				
	EMC IMMUNITY	- 17		- 1			lustry level (sur	10.00					
	MTBF	207.9K hrs m		BK-217F (25°C		Jour II, III girt iire	derry level (ear	go mry, omo	1071				
OTHERS	DIMENSION			(HLG-240-Blan		1*68*38 8mm	(L*W*H)(HLG-2	240-C)					
JIIILING	PACKING			UFT(HLG-240-			cs/15.8Kg/1.16		0-C1				
NOTE	All parameters NOT special Property of the American Section 2. Ripple & noise are measure Tolerance: includes set up Property of the American Section 2. Ripple only Description of the American Section 2. Ripple only Safety and EMC design ref. Length of set up time is me Description of the American Section 2. The power supply is considered.	ly mentioned a ed at 20MHz o tolerance, line METHODS OF order low input er to EN60598 asured at cold	are measured f bandwidth b regulation an LED MODUL voltages. Plea i-1, subject 87 first start. Tur	at 230VAC inp y using a 12" to d load regulate E". ase check the s 50(UL), CNS15 ming ON/OFF	out, rated load wisted pair-wir on. static character 5233, GB7000 the power sup	and 25°C of a e terminated v sistics for more	ambient temper with a 0.1uf & 4 details. 8. to increase of the	ature. 7uf parallel ca he set up time.	pacitor.	ected by the			

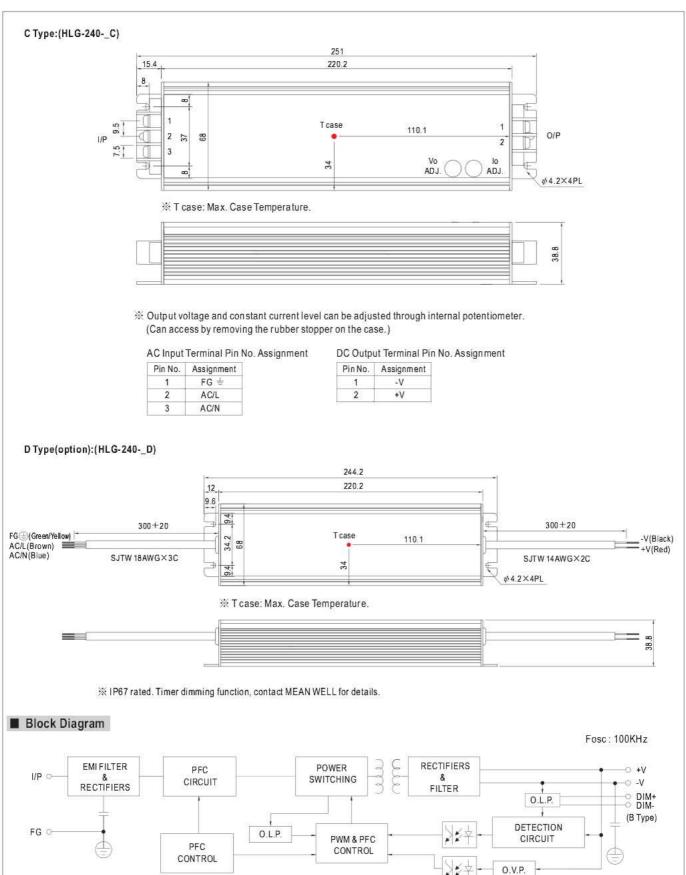
complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

10. Refer to warranty statement.

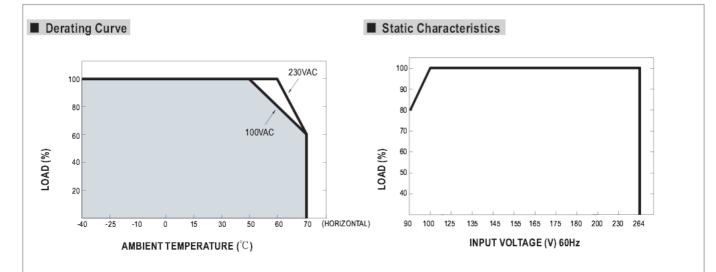




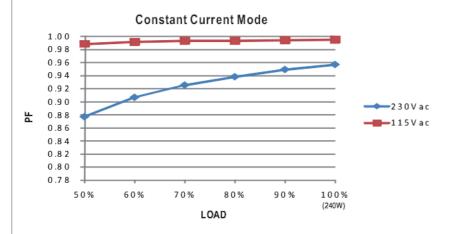






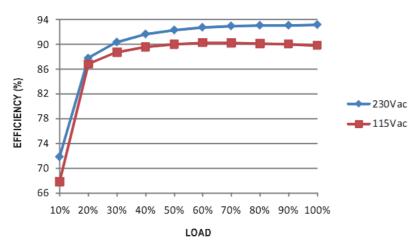


# ■ Power Factor Characteristic



# ■ EFFICIENCY vs LOAD (48V Model)

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



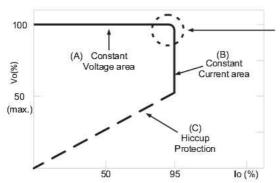


## ■ DRIVING METHODS OF LED MODULE

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).

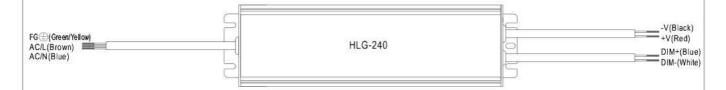


In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

Typical LED power supply I-V curve

## ■ DIMMING OPERATION (for B-type only)



- 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".
- 3. Reference resistance value for output current adjustment (Typical)

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

3 1 ~ 10V dimming function for output current adjustment (Typical)

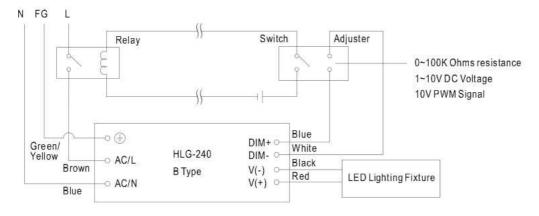
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

\* 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.

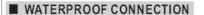
Dimming connection diagram for turning the lighting fixture  $\mbox{ON/OFF}$  :



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 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2.The LED lighting fixture can be turned ON/OFF by the switch.





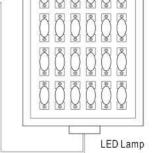
Waterproof connector

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

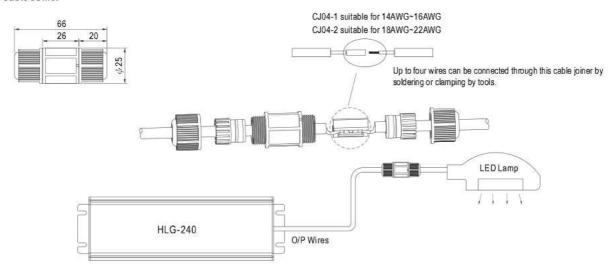


Size	Pin Configuration (Female)						
(0.000)	000	000					
M12	4-PIN	5-PIN					
	5A/PIN	5A/PIN					
Order No.	M12-04	M12-05					
Suitable Current	10A max.	10A max.					

Size	Pin Configuration (Female)
M15 -	00
	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.



