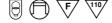




Features:

- 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
- 5 years warranty (Note.10)











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.
- $B:IP67\ rated.\ Constant\ current\ level\ adjustable\ through\ output\ cable\ with\ 1\sim10\ Vdc\ or\ 10\ V\ PWM\ signal\ or\ resistance.$
- C: Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.
- D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

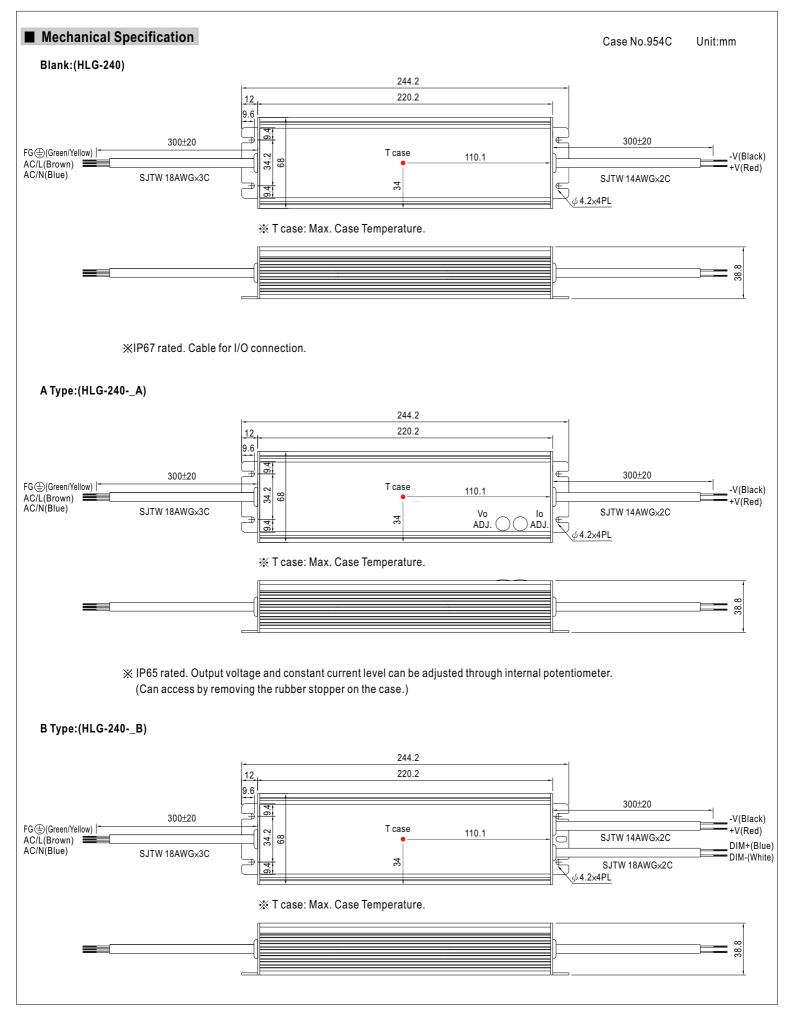
SPECIFICATION

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	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	
	VOLTAGE ADJ. RANGE Note.6				22.4 ~ 25.6V		33.5 ~ 38.5V		44.8 ~ 51.2V		
OUTPUT		Can be adjust		otentiometer o							
CURR	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%	
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
				230VAC /115V							
	HOLD UP TIME (Typ.)	,	ad 230VAC								
	` • • •	90 ~ 264VAC	127 ~ 373								
		47 ~ 63Hz	121 - 313) V D C							
	FREQUENCY RANGE		/AC DE>0.05/0	230VAC at full I	and (Diagon To	for to "Power F	actor Characte	rictio" curvo			
INPUT	POWER FACTOR (Typ.)		90%	92%	93%		93.5%	· · · · · · · · · · · · · · · · · · ·	040/	040/	
NPUI	EFFICIENCY (Typ.)	90%			93%	93%	93.5%	94%	94%	94%	
	AC CURRENT (Typ.)	4A / 115VAC	2A / 230V	AC							
	INRUSH CURRENT (Typ.)	COLD START 75A/230VAC									
	LEAKAGE CURRENT	<0.75mA / 24	JVAC								
	OVER CURRENT 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							ı			
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									
	OVED TEMPEDATURE	$105^{\circ} C \pm 5^{\circ} C \text{ (TSW1)} \qquad 95^{\circ} C \pm 5^{\circ} C \text{ (TSW1)}$									
	OVER TEMPERATURE	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-condensir	ıg							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/℃ (0	~50°C)								
	VIBRATION	10 ~ 500Hz. 5	G 12min./1cvc	le, period for 7	'2min, each ald	ong X. Y. Z axes	 }				
								161347-1. EN6	31347-2-13 ind	ependent	
	SAFETY STANDARDS Note.7								47-1, J61347-	•	
SAFETY &	WITHSTAND VOLTAGE			G:1.88KVAC				,	,		
EMC	ISOLATION RESISTANCE			0M Ohms / 50							
	EMC EMISSION			155022 (CISPR			lass C (> 50%	load) : FN610	00-3-3		
	EMC IMMUNITY			,3,4,5,6,8,11, E			•				
	MTBF	207.9Khrs mi		K-217F (25°C)	1101011, 2110	ooz i, iigiit iiiat	ion y iovor (our	go 11(v), ontoi	1471		
OTHERS	DIMENSION			HLG-240-Blank	/Δ/R) 25:	1*68*38.8mm (I *\W*H\/HI G_2	MU-C)			
JIHERS	PACKING		, ,,	JFT(HLG-240-	,		cs/15.8Kg/1.16	,	n-c)		
NOTE	1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Constant current operation reconfirm special electrical r 5. Derating may be needed ur 6. Type A and type C only. 7. Safety and EMC design refe 8. Length of set up time is med 9. The power supply is consider.	ly mentioned a stid at 20MHz or tolerance, line region is within equirements for the low input or to EN60598 asured at cold	re measured at bandwidth by regulation and 50% ~100% or some specificating. Please 1, subject 875 first start. Turr	at 230VAC inp trusing a 12" tv I load regulation rated output voic system design se check the si 50(UL), CNS15 hing ON/OFF ti	ut, rated load a visted pair-wire n. oltage. This is a gn. tatic characteri 233, GB7000. he power supp	and 25°C of are terminated when the suitable operations for more and the suitable part 1, FCC part 18 bly may lead to	mbient temperation a 0.1uf & 4 eration region details.	ature. 7uf parallel cap for LED relate	pacitor. d applications,	·	

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

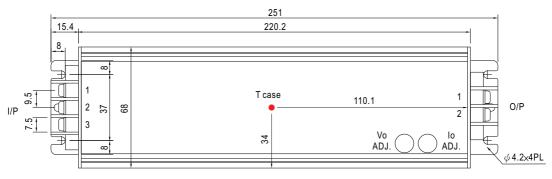
10. Refer to warranty statement.



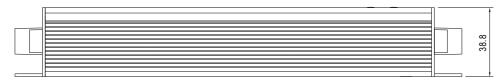








☆ T case: Max. Case Temperature.



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

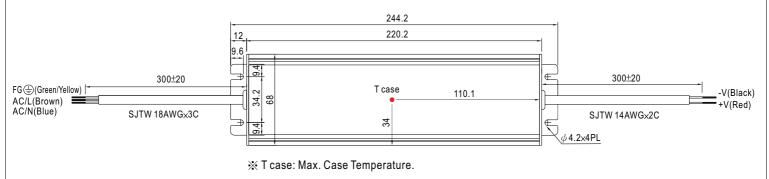
AC Input Terminal Pin No. Assignment

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

DC Output Terminal Pin No. Assignment

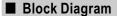
Pin No.	Assignment
1	-V
2	+V

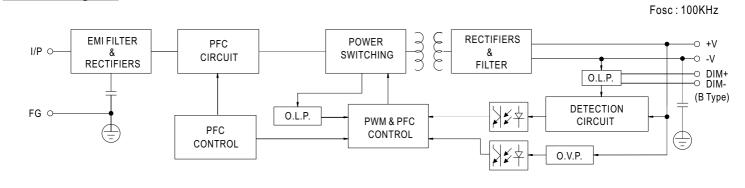
D Type(option):(HLG-240-_D)



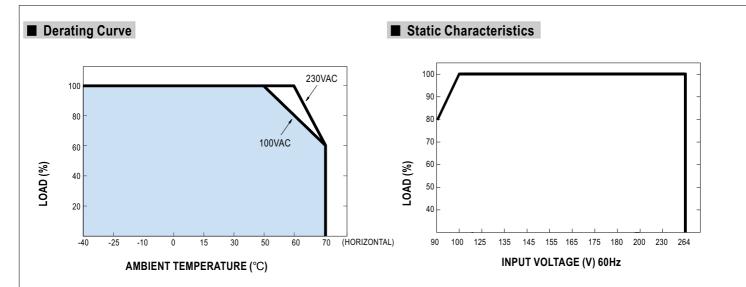


 \times IP67 rated. Timer dimming function, contact MEAN WELL for details.

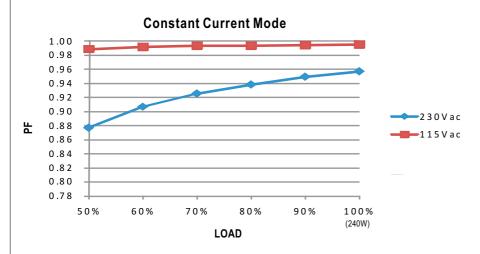






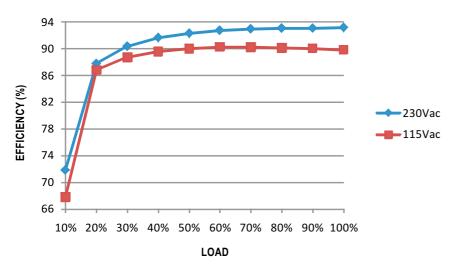


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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



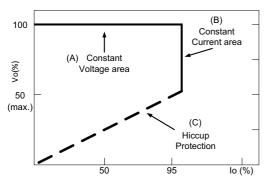


■ DRIVING METHODS OF LED MODULE

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

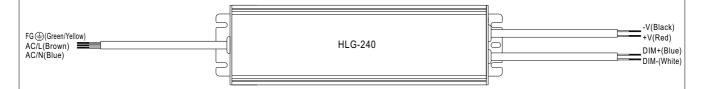
A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs.

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).



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	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
value	Multiple drivers	10KΩ/N	20KΩ/N	30KΩ/N	40K Ω/N	50K Ω/N	60KΩ/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%~105%

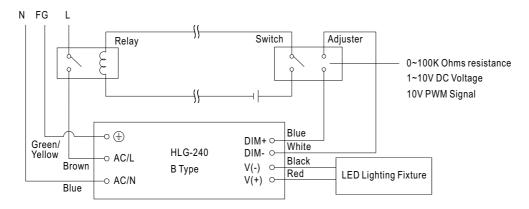
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~105%

💥 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 $\mbox{ON/OFF}$:



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

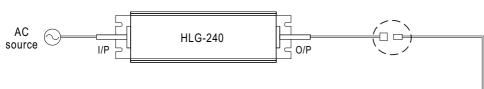
- 1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

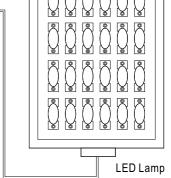
Waterproof connector

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)					
M12	00	000				
IVIIZ	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

