



- Universal AC input / Full range (up to 305VAC)
- · Built-in active PFC function
- High efficiency up to 94%
- 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.9)



















HLG-150H-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.

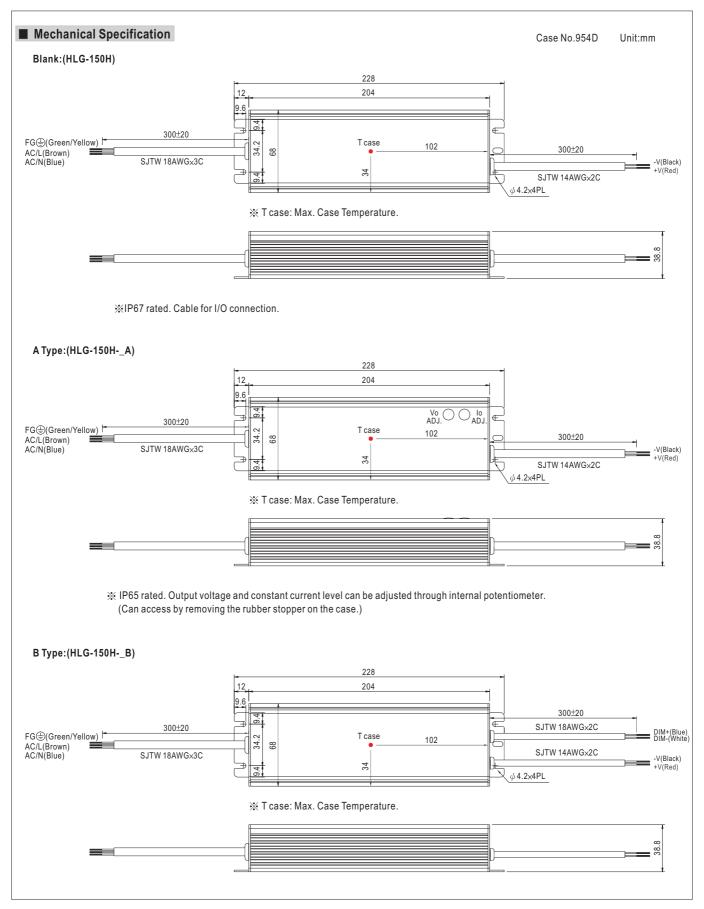
D (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

SPECIFICATION

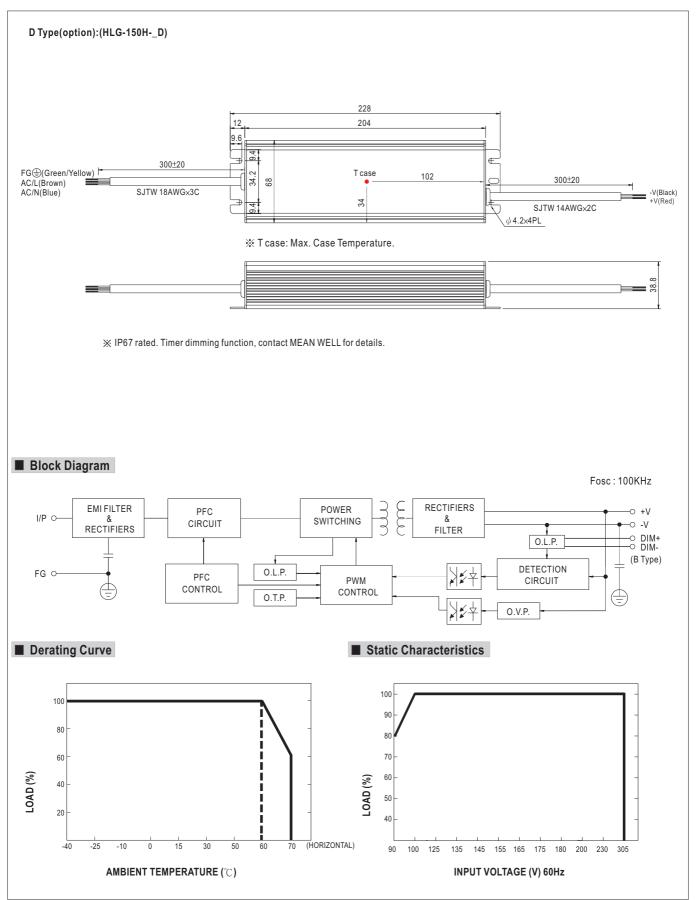
MODEL	ATION	HLG-150H-12	HI G-150H-15	HLG-150H-20	HLG-150H-24	HLG-150H-30	HLG-150H-36	HLG-150H-42	HLG-150H-48	HLG-150H-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
						5A	4.2A	3.6A					
ОИТРИТ	RATED CURRENT	12.5A 150W	10A	7.5A	6.3A		4.2A 151.2W	151.2W	3.2A	2.8A			
	RATED POWER		150W	150W	151.2W	150W			153.6W	151.2W			
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE Note.5			17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V			
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type only 7.5 - 12.5 \(\) 6 - 10.0 \(\) 4.5 - 7.5 \(\) 3.8 - 6.3 \(\) 3.5 - 6.3 \(\) 2.5 - 4.2 \(\) 2.5 - 4.2 \(\) 2.16 - 3.6 \(\) 1.02 - 3.2 \(\) 1.68 - 2.8 \(\)											
		7.5 ~ 12.5A	6 ~ 10A	4.5 ~ 7.5A	3.8 ~ 6.3A	3 ~ 5A	2.5 ~ 4.2A	2.16 ~ 3.6A	1.92 ~ 3.2A	1.68 ~ 2.8			
	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%			
	SETUP, RISE TIME Note.7	2500ms, 80ms at full load 230VAC / 115VAC ; B type 2500ms, 200ms at 95% load 230VAC / 115VAC											
	HOLD UP TIME (Typ.)	16ms at full load 230VAC / 115VAC											
	VOLTAGE RANGE Note.4	90 ~ 305VAC	127 ~ 43	1VDC									
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)	PF>0.98/115\	/AC, PF>0.95/2	230VAC, PF>0	.92/277VAC at	full load (Pleas	e refer to "Pov	ver Factor Cha	racteristic" cur	/e)			
INPUT	EFFICIENCY (Typ.)	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%			
	AC CURRENT (Typ.)	1.7A / 115VAC 0.75A / 230VAC 0.7A / 277VAC											
	INRUSH CURRENT (Typ.)	COLD START 75A/230VAC											
	LEAKAGE CURRENT	<.p>< 0.75mA / 277VAC											
	OVER CURRENT	95~108%											
		Protection type: Constant current limiting, recovers automatically after fault condition is removed											
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed											
ROTECTION	OVER VOLTAGE	14 ~ 17V 18 ~ 21V 23 ~ 27V 28 ~ 34V 34 ~ 38V 41 ~ 46V 47 ~ 53V 54 ~ 60V 59 ~ 65V Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery											
		Protection typ	e : Shut down	o/p voltage wit	h auto-recover	y or re-power o	n to recovery						
	OVER TEMPERATURE	100°C ±10°C (RTH2)											
	OVER TEMIT ERATORE	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	non-condensi	ng									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/℃ (0	~50°C)										
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes											
		UL 8750 CSA	-					IP67 J61347	-1 J61347-2-	13 approved			
	SAFETY STANDARDS Note.6	UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent IP65 or IP67, J61347-1, J61347-2-13 approved design refer to UL60950-1, TUV EN60950-1											
SAFETY &	WITHSTAND VOLTAGE		·	G:2KVAC O		C.							
EMC	ISOLATION RESISTANCE			00M Ohms / 50									
0	EMC EMISSION	-					lace C (> 60%	load) · EN610	NN_3_3				
	EMC IMMUNITY	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥60% load); EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A											
	MTBF	-				JOZ-4, light inde	astry level (sur	gc +itv), citici	1471				
OTHERS	DIMENSION	192.2K hrs min. MIL-HDBK-217F (25°C)											
UITEKS		228*68*38.8mm 1.15Kg; 12pcs/14.8Kg/0.8CUFT											
	PACKING				I I	and OF°C -f -	malaianat taur						
NOTE	 Ripple & noise are measure Tolerance : includes set up Derating may be needed ur Type A only. 	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. der low input voltages. Please check the static characteristics for more details. r to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18.											

- 7. 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.
- 8. 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. 9. Refer to warranty statement.



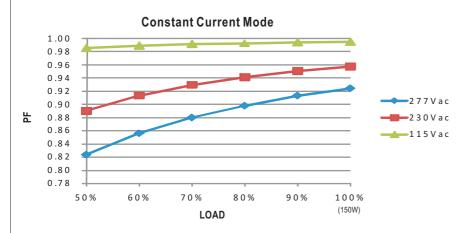






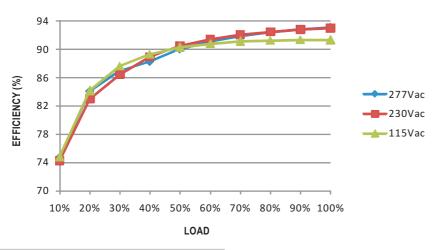


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

HLG-150H series possess superior working efficiency that up to 94% can be reached in field applications.

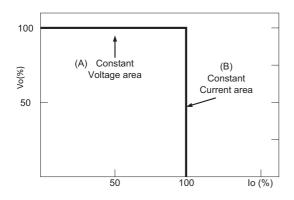


■ DRIVING METHODS OF LED MODULE

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

Resistance value	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90ΚΩ	100K Ω	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%
※ 1 ~ 10V dimming function for output current adjustment (Typical)											
Dimming value	11/	21/	21/	41/	E\/	GV	7\/	01/	01/	101/	ODEN

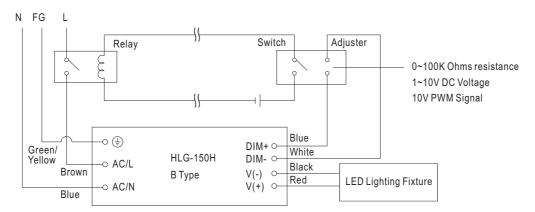
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

※ 10V PWM signal for output current adjustment (Typical): Frequency range :100Hz ~ 3KH
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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 ${\sf ON/OFF}$:



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

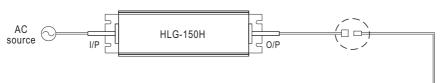
- 1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

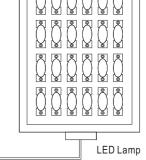
Waterproof connector

 $Waterproof connector \ can be \ assembled \ on \ the \ output \ cable \ of \ HLG-150H \ to \ operate \ in \ dry/wet/damp \ or \ outdoor \ environment.$



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

Pin Configuration (Female					
\odot					
2-PIN					
12A/PIN					
M15-02					
12A max.					



O Cable Joiner

