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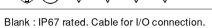
■ Features :

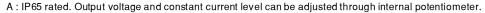
- Universal AC input / Full range (up to 305VAC)
- · Built-in active PFC function
- High efficiency up to 94%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 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

SELV IP65 IP67 R C US

- 5 years warranty (Note.9)







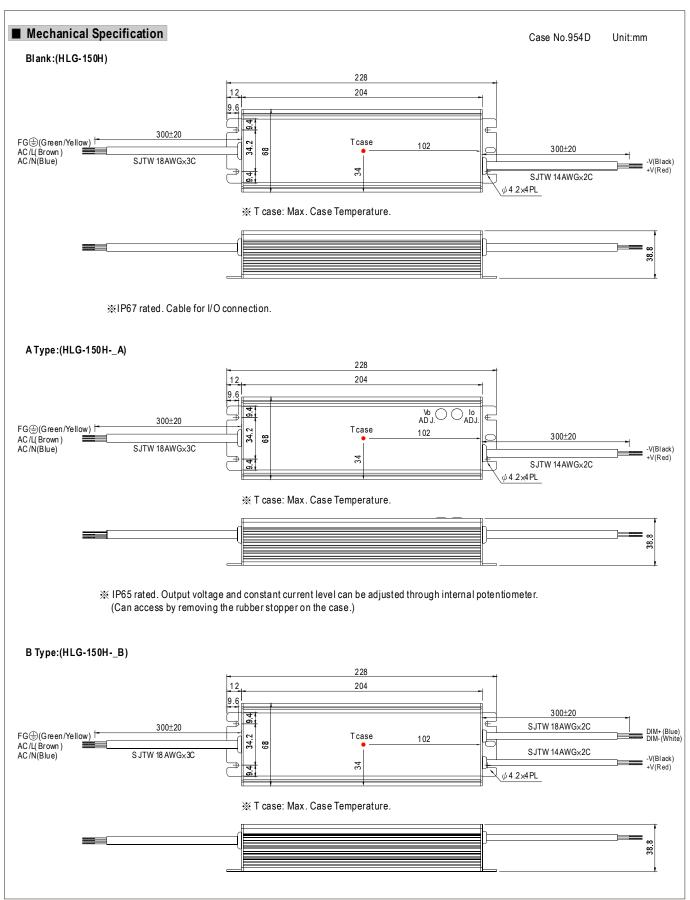
B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

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

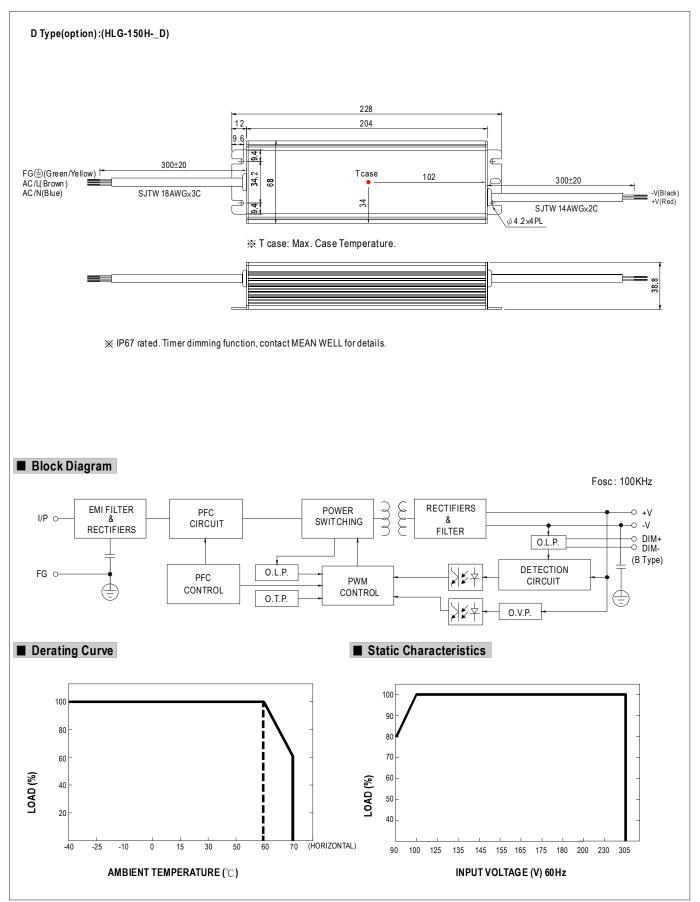
SPECIFICATION

MODEL	ATION	III O 450II 40	III O 450II 45	11104501100	111 0 45011 04	111 0 45011 20	111.0 45011.00	111.0 45011 40	1110 45011 40	1110 45011 54E		
MODEL			HLG-150H-15	HLG-150H-20	HLG-150H-24	HLG-150H-30	HLG-150H-36	HLG-150H-42	HLG-150H-48	HLG-150H-54		
ОИТРИТ	DC VOLTAGE	12V	15V	20V	24 V	30V	36V	42V	48V	54V		
	RATED CURRENT	12.5A	10A	7.5A	6.3 A	5A	4.2A	3.6A	3.2A	2.8A		
	RATED POWER	150W	150W	150W	151.2W	150W	151.2W	151.2W	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	10.8 ~ 13.5V	13.5 ~ 17V	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 ~ 12.5A	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 ~ 2.8A		
	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.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 ~ 431VDC										
	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)										
INDUT	TOTAL HARMONIC DISTORTION	THD<20% when output loading ≥ 60% at 115VAC/230VAC input and output loading ≥ 75% at 277VAC input										
INPUT	EFFICIENCY (Typ.)	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%		
	AC CURRENT (Typ.)	1.7A / 115VA	0.75A/	230VAC	0.7A / 277VAC	;			•	'		
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=425 µs measured at 50% Ipeak) at 230VAC										
	LEAKAGE CURRENT	<0.75mA/277VAC										
PROTECTION	OVED OUDDENT	95 ~ 108%										
	OVER CURRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed										
		14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V		
	OVER VOLTAGE	Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery										
		100°C ±10°C (RTH2)										
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down										
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")										
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing										
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)										
	VIBRATION	10 ~ 500Hz, 5G 12min./1 cycle, period for 72min. each along X, Y, Z axes										
SAFETY & EMC		UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent IP65 or IP67, J61347-1, J61347-2-13 approved :										
	SAFETY STANDARDS Note.6	design refer to UL60950-1, TUV EN60950-1										
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC										
	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 (≥60% 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 A										
	MTBF	192.2K hrs min. MIL-HDBK-217F (25°C)										
OTHERS	DIMENSION	228*68*38.8mm										
	PACKING		s/14.8Kg/0.8C	LIFT								
					nut_rated load	d and 25°C of	amhient tempe	erature				
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltages. Please check the static characteristics for more details. A 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. 											



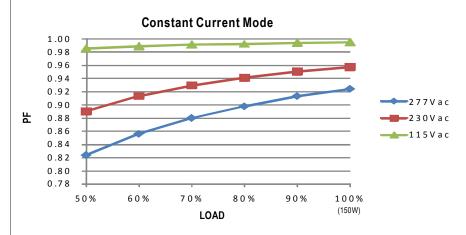






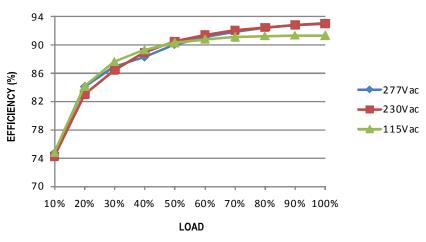


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

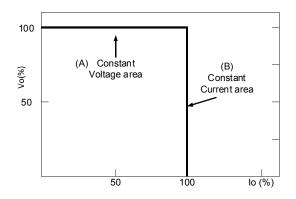


■ DRIVING METHODS OF LED MODULE

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

Atypical 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)

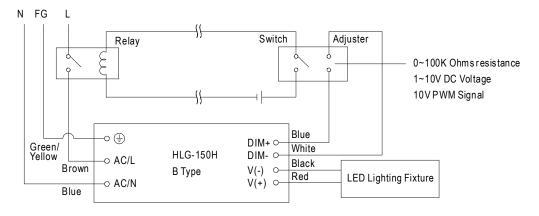


- \times Please DO NOT connect "DIM-" to "-V".
- ※ Reference resistance value for output current adjustment (Typical)

Resistance value	10K Ω	$\mathbf{20K}\Omega$	$30 \text{K}\Omega$	$40 \text{K}\Omega$	50 Κ Ω	60K Ω	70K Ω	$80 \mathrm{K}\Omega$	$90 \text{K}\Omega$	100Κ 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	1V	2V	3V	4V	5V	6V	7V	8V	9V	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: 100 Hz ~ 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.

 $\label{lighting connection diagram for turning the lighting fixture ON/OFF: \\$



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

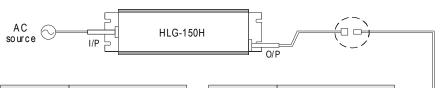
- 1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2.The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

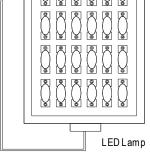
Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-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/P IN	5A/PIN				
Order No.	M12-04	M12-05				
Suitable Current	10A max.	10A max.				

Size	Pin Configuration (Female)					
M 15	00					
IVI IS	2-PIN					
	12A/P IN					
Order No.	M15-02					
Suitable Current	12A max.					



O Cable Joiner

