

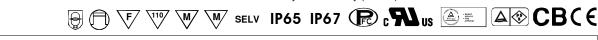
### 150W Single Output Switching Power Supply

### HLG-150H series



#### 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
- $\hfill \$  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.

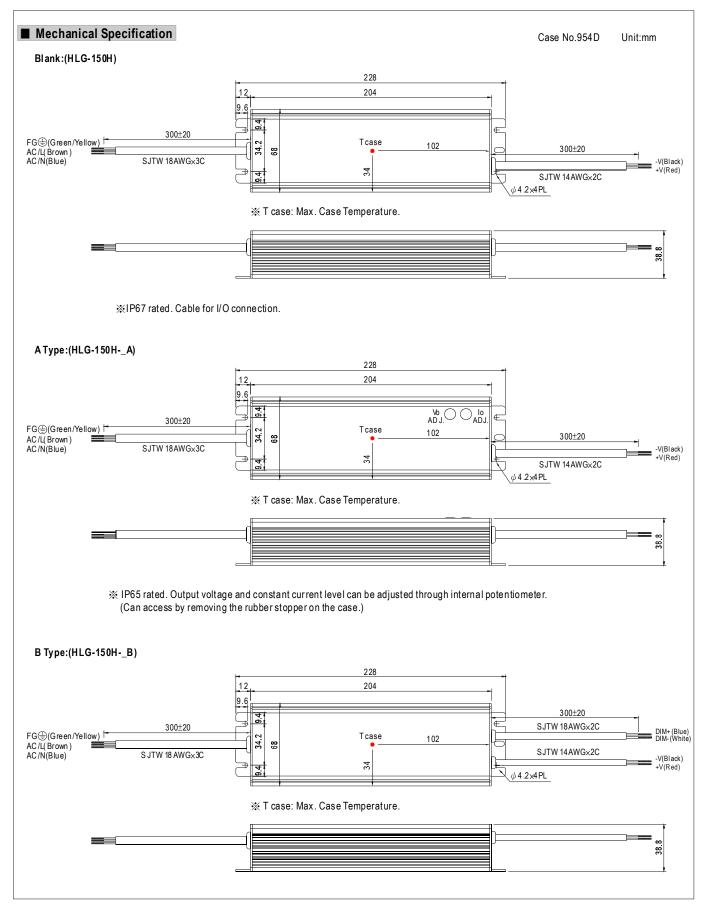
- B : IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.
- D (option, safety pending) : IP67 rated. Timer dimming function, contact MEAN WELL for details.

#### SPECIFICATION

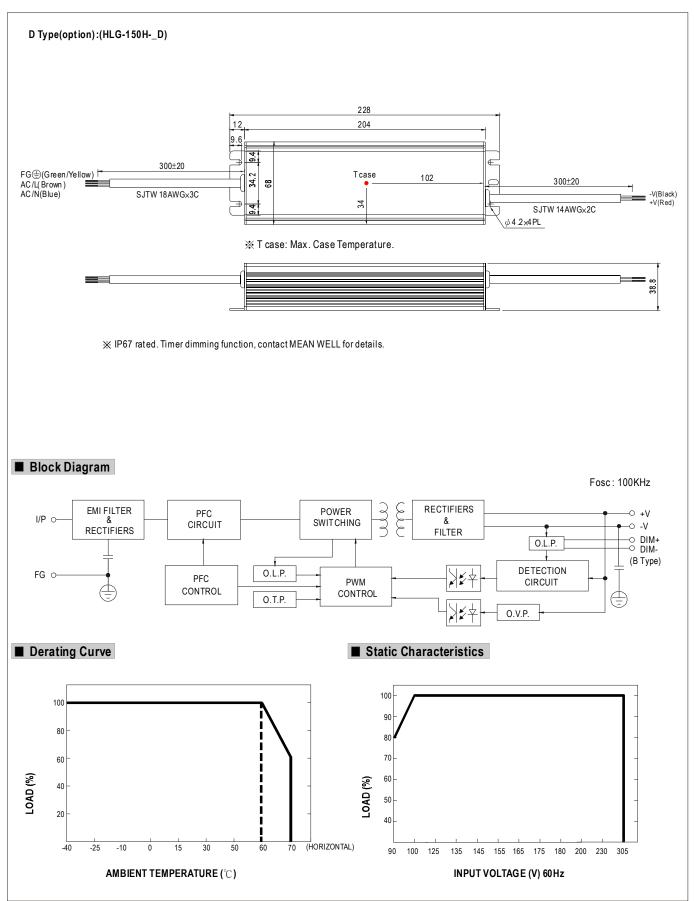
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MODEL		HLG-150H-12	HLG-150H-15	HLG-150H-20	HLG-150H-24	HLG-150H-30	HLG-150H-36	HLG-150H-42	HLG-150H-48	HLG-150H-54
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
OUTPUT	RATED CURRENT	12.5A	10A	7.5A	6.3A	5A	4.2A	3.6A	3.2A	2.8A
	RATEDPOWER	12.3A	150W	150W	151.2W	150W	151.2W	151.2W	153.6W	151.2W
	RIPPLE & NOISE (max.) Note.2		150 mVp-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 ~ 12.5A	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 TO LERANCE 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								
INPUT		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)								
	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 65A(twidth=425µ s measured at 50% Ipeak) at 230VAC								
	LEAKAGE CURRENT	<0.75mA / 277VAC								
PROTECTION		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								
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")								
	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./1cycle, period for 72min. each along X, Y, Z axes								
	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	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
EMC	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								
OTHERS	MTBF	192.2K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	228*68*38.8mm								
	PACKING	1.15Kg; 12pcs	s/14.8Kg/0.8Cl	JFT						
NOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>Derating may be needed ur</li> <li>A type only.</li> <li>Safety and EMC design ref.</li> <li>Length of set up time is me</li> <li>The power supply is consid</li> </ol>	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. o tolerance, line regulation and load regulation. under low input voltages. Please check the static characteristics for more details. effer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. easured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. dered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the inal equipment manufacturers must re-qualify EMC Directive on the complete installation again.								







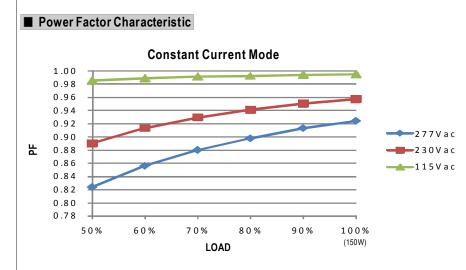


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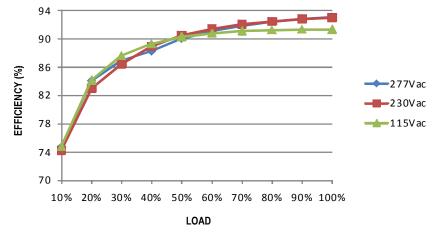
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# HLG-150H series



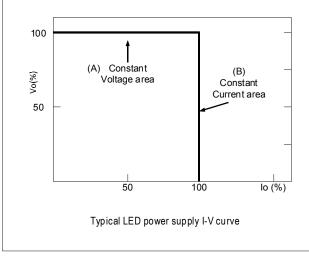
### EFFICIENCY vs LOAD (48V Model)

 $HLG-150H\,s\,eries\,possess\,superior\,wor\,king\,efficiency\,that\,up\,to\,94\%\,can\,be\,reached\,in\,field\,applications\,.$ 

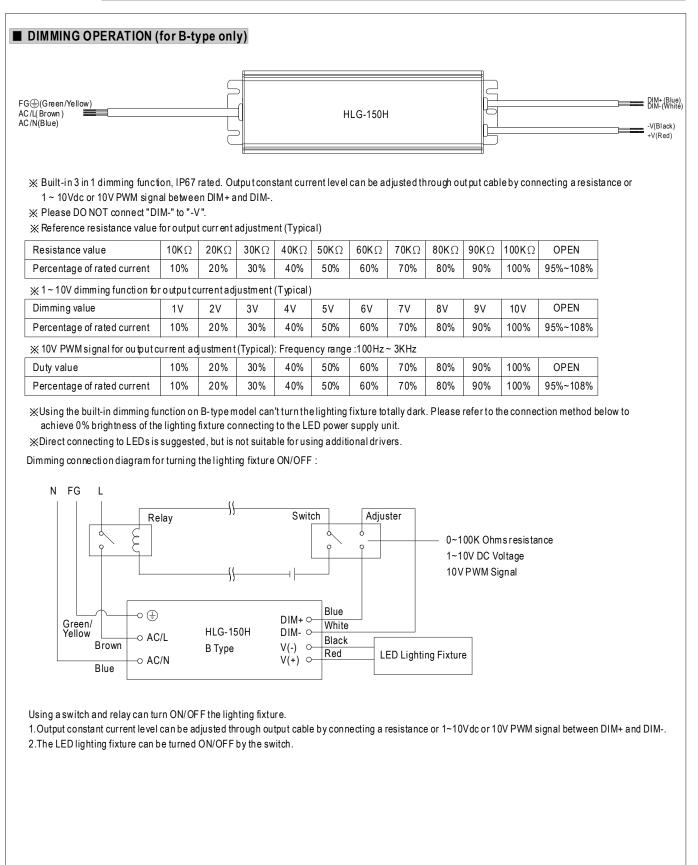


#### DRIVING METHODS OF LED MODULE

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 draracteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).









#### ■ WATERPROOF CONNECTION

#### $\odot$ Waterproof connector

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

