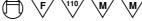


Features:

- 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
- 5 years warranty (Note.9)





150W Single Output Switching Power Supply

SELV IP65 IP67 (R) c Nus (A) 150









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.

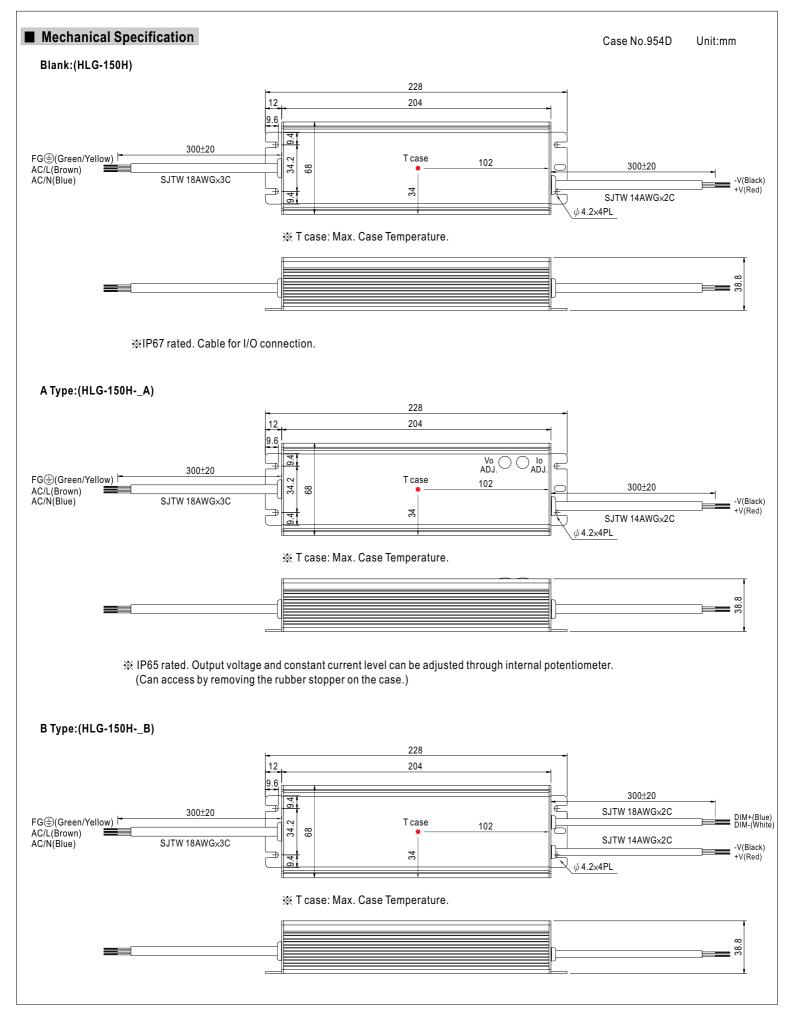
B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.

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

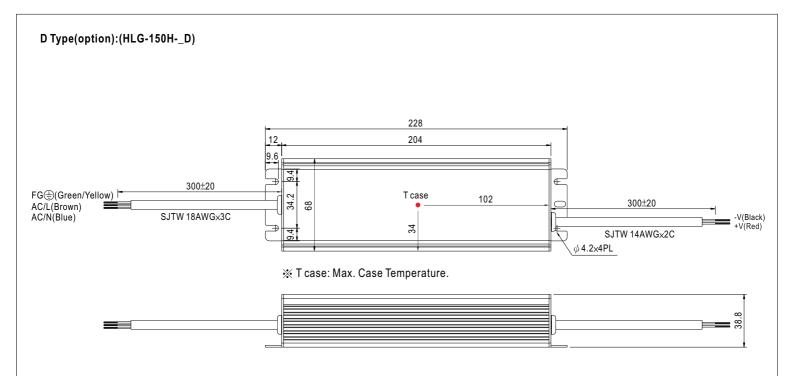
SPECIFICATION

MODEL		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				
	RATED CURRENT	12.5A	10A	7.5A	6.3A	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			17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V				
	TOZINOZNIBO: NO NITOZ NOKO.	Can be adjusted by internal potentiometer or through output cable												
OUTPUT	CURRENT ADJ. RANGE	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		±2.0%	±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%				
										±0.5%				
		,	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												
		90 ~ 305VAC	127 ~ 43	IVDC										
	FREQUENCY RANGE	47 ~ 63Hz PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)												
	POWER FACTOR (Typ.)					· · · · ·				Τ΄				
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	<0.75mA/277VAC												
	OVER CURRENT	95 ~ 108%												
	OVER CORRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed												
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed												
PROTECTION		14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	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.		Refer to "Dera											
	WORKING HUMIDITY	_	non-condensir											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,		.9										
LINVINORMILINI	TEMP. COEFFICIENT	±0.03%/°C (0												
	VIBRATION	,			70:	V V 7	_							
				•		ong X, Y, Z axe		. d. D. dan (.	. (.) (. 00050 4 .	TIN/ EN00050				
	SAFETY STANDARDS Note.6			· · · · · · · · · · · · · · · · · · ·		61347-2-13, IP6	or iPor approv	ea ; Design refe	r to UL60950-1,	TUV EN60950				
SAFETY &	WITHSTAND VOLTAGE				O/P-FG:0.5k									
EMC	ISOLATION RESISTANCE				00VDC / 25°C /									
	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, heavy industry level (surge 4KV), criteria A												
	MTBF	192.2Khrs min. MIL-HDBK-217F (25°C)												
OTHERS	DIMENSION	228*68*38.8mm												
	PACKING 1.15Kg; 12pcs/14.8Kg/0.74CUFT													
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up Derating may be needed ur Type A and type C only. Safety and EMC design ref. Length of set up time is me The power supply is consid complete installation, the fin Refer to warranty statemen:	ed at 20MHz of tolerance, line nder low input er to EN60598 asured at cold ered as a com- nal equipment	f bandwidth by regulation and voltages. Plead i-1, subject 87 first start. Tur uponent that w	y using a 12" of d load regulations check the state of th	wisted pair-will on. static characte 5233, GB7000 the power sup I in combinatio	re terminated varistics for more 0.1, FCC part1 oply may lead on with final eq	with a 0.1uf & e details. 8. to increase of uipment. Since	47uf parallel c the set up time EMC perforn	e.	affected by th				



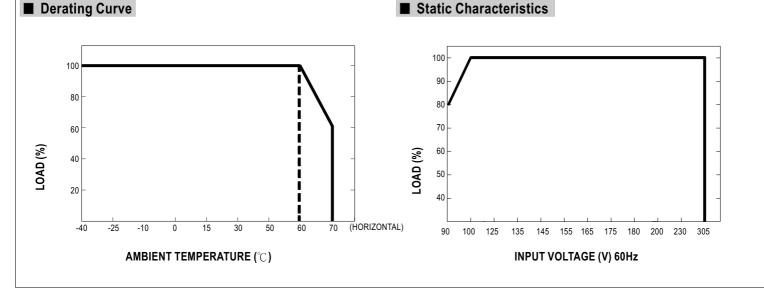






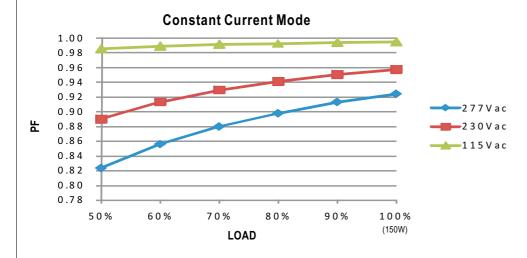
× IP67 rated. Timer dimming function, contact MEAN WELL for details.

■ Block Diagram Fosc: 100KHz **RECTIFIERS EMI FILTER POWER** PFC I/P ○ **SWITCHING** CIRCUIT -⊙ -V **RECTIFIERS FILTER** O.L.P. → DIM+ → DIM-(B Type) **DETECTION** 0.L.P. FG O PFC PWM CIRCUIT CONTROL CONTROL O.T.P. 0.V.P.



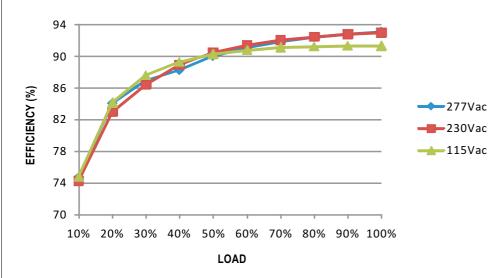


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

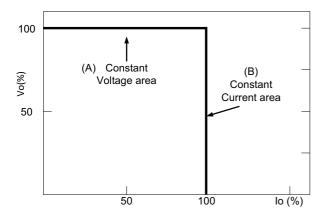


■ DRIVING METHODS OF LED MODULE

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



- ※ Please DO NOT connect "DIM-" to "-V".
- X 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%	102%~108%

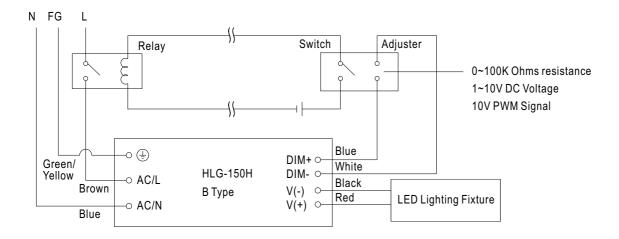
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	102%~108%

※ 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%	102%~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.

Dimming connection diagram for turning the lighting fixture ON/OFF:



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

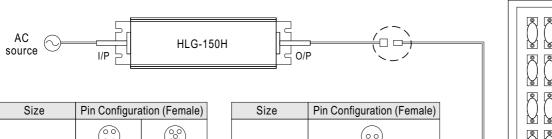
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

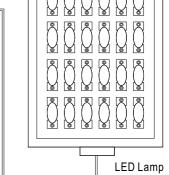
Waterproof connector

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

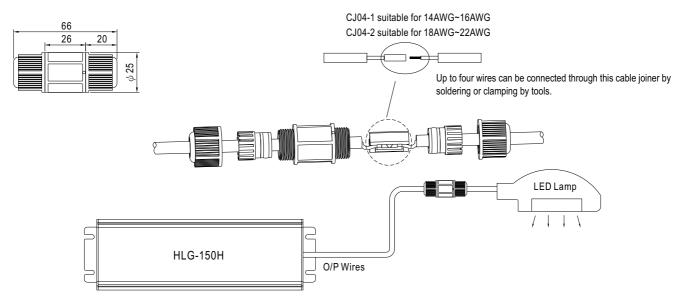


3126	r iii Comiguration (i emale)						
M12	000	000					
IVIIZ	4-PIN	5-PIN					
	5A/PIN	5A/PIN					
Order No.	M12-04	M12-05					
Suitable Current	10A max.	10A max.					

Size	Pin Configuration (Female)					
M15	00					
IVI 13	2-PIN					
	12A/PIN					
Order No.	M15-02					
Suitable Current	12A max.					

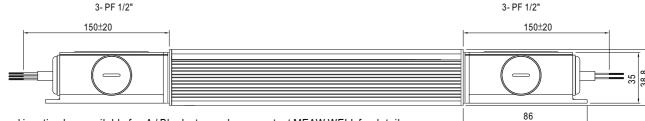


O Cable Joiner



*CJ04 cable joiner can be purchased independently for user's own assembly. MEAN WELL order No.: CJ04-1, CJ04-2.

204 366 FG (Green/Yellow) AC/L(Brown) = 89 SJTW 14AWG×2C SJTW 18AWG×3C



**Optional junction box available for A / Blank - type, please contact MEAW WELL for details.

+V(Red)