



■ Features :

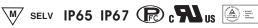
- Universal AC input / Full range
- Built-in active PFC function
- High efficiency up to 94%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor 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.10)















HLG-150-12 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.

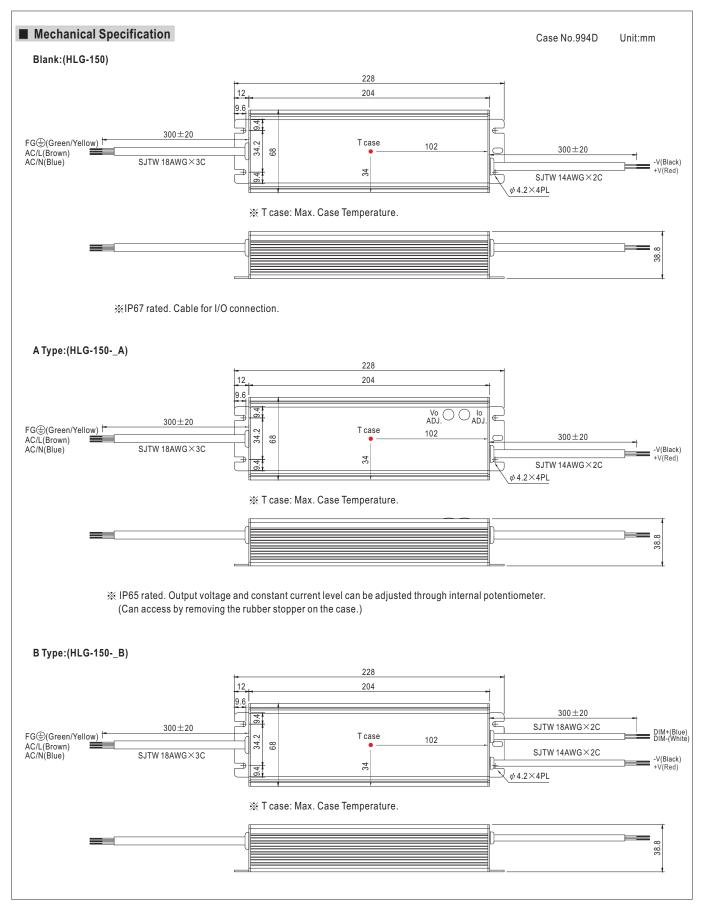
SPECIFICATION

MODEL		HLG-150-12	HLG-150-15	HLG-150-20	HLG-150-24	HLG-150-30	HLG-150-36	HLG-150-42	HLG-150-48	HLG-150-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4		7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 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.6			17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V			
DUTPUT	VOLINGE ADD. NAMOE NOTE.0			potentiometer A		21 000	100	00 101	70 00V	140 00V			
5011-01	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 ~ 2.8			
	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%			
						-							
		1000ms,50ms/115VAC 500ms,50ms/230VAC at full load ; B type 1000ms,200ms/115VAC 500ms,200ms/230VAC at 95% load 16ms at full load 230VAC / 115VAC											
	HOLD UP TIME (Typ.)	16ms at full lo											
		90 ~ 264VAC	127 ~ 370	JVDC									
	FREQUENCY RANGE	47 ~ 63Hz											
	POWER FACTOR (Typ.)			,		ver Factor Chai	T		1				
NPUT	EFFICIENCY (Typ.)	92%	92.5%	93%	93.5%	93.5%	93.5%	94%	94%	94%			
	AC CURRENT (Typ.)	1.7A / 115VAC 0.75A / 230VAC											
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=425 \(\mu \) s measured at 50% peak) at 230VAC											
	LEAKAGE CURRENT	<0.75mA/240VAC											
	OVER CURRENT	95~108%											
		Protection typ	e : Constant c	urrent limiting,	recovers auto	matically after f	ault condition is	s removed					
ROTECTION	SHORT CIRCUIT	Constant curr	ent limiting, re	covers automa	tically after fau	ılt condition is r	emoved						
KOTECTION	OVER VOLTAGE	14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V			
	OVER VOLIAGE	Protection typ	e : Shut down	o/p voltage wit	h auto-recove	ry or re-power o	n to recovery						
	OVER TEMPERATURE	Shut down o/	p voltage, rec	overs automat	ically after ter	nperature goe	s down						
	WORKING TEMP.	-40 ~ +70°C (-40 ~ +70°C (Refer to "Derating Curve")										
	WORKING HUMIDITY	20 ~ 95% RH	non-condensir	ng									
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	72min, each al	ong X. Y. Z axe	s						
		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes 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.7	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												
0	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥60% load); EN61000-3-3											
	EMC IMMUNITY	Compliance to EN55015, EN55022 (CISPR22) Class B, EN5100-3-2 Class C (≦60% load); EN51000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A											
	MTBF	192.2K hrs mi		3K-217F (25°C)		JJ024, light indi	astry level (sur	ge 41(v), criter	ian				
THERE		228*68*38.8n		JK-2171 (23 C)								
OTHERS	DIMENSION		s/14.8Kg/0.8Cl	ICT									
NOTE	PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING N 5. Derating may be needed ur 6. A type only. 7. Safety and EMC design refe 8. Length of set up time is me 9. The power supply is consident	by mentioned a sed at 20MHz of tolerance, line METHODS OF ader low input of the EN60598 asured at cold	re measured a f bandwidth by regulation and LED MODULI voltages. Pleas -1, CNS15233 first start. Turr	at 230VAC inp v using a 12" tv d load regulation E". se check the s d, GB7000.1, F hing ON/OFF t	wisted pair-wir on. static characte CC part18. she power sup	e terminated waristics for more	details.	7uf parallel ca		ected by th			

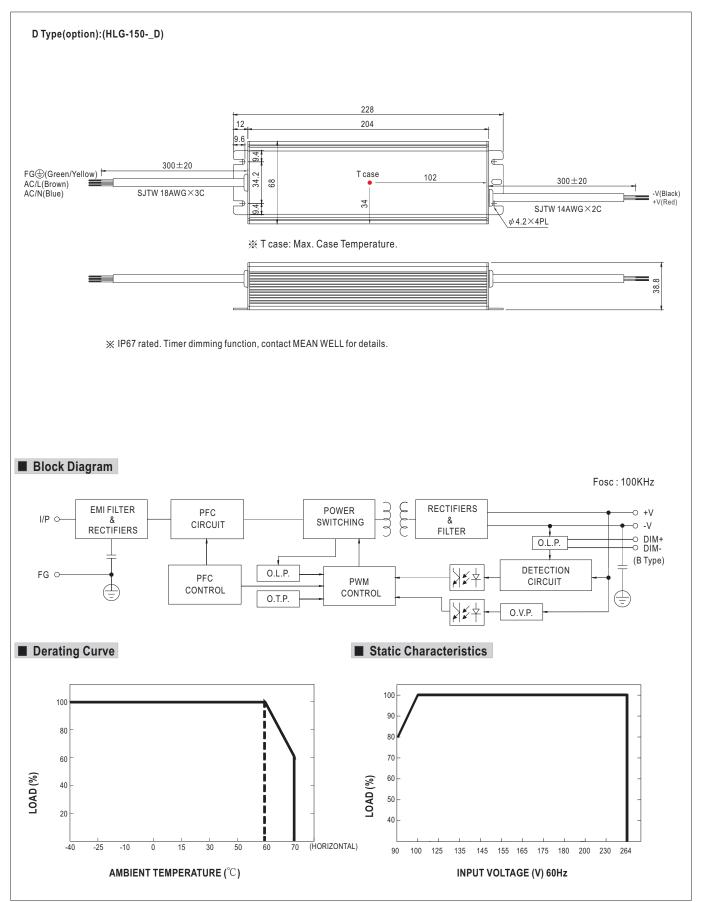
- complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 10. Refer to warranty statement.

 11. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently



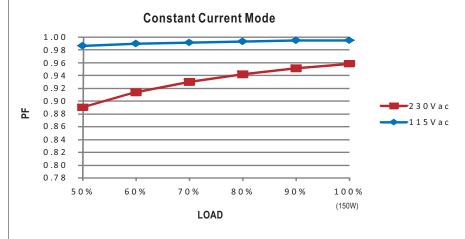






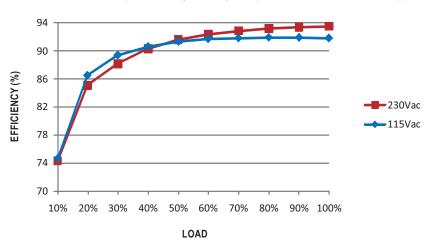


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

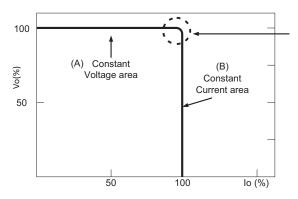


■ DRIVING METHODS OF LED MODULE

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).



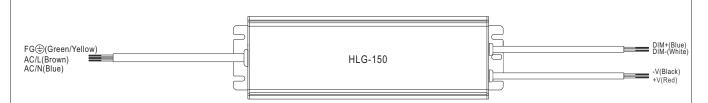
Typical LED power supply I-V curve

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.



■ DIMMING OPERATION (for B-type only)



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

Resistance	Single driver	10K Ω	20ΚΩ	30K Ω	40K Ω	50K Ω	60KΩ	70K Ω	80KΩ	90K Ω	100K Ω	OPEN
value	Multiple drivers (N=driver quantity for synchronized dimming operation)	10K Ω /N	20K Ω /N	30K Ω /N	40K Ω/N	50K Ω/N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100K Ω /N	
Percentage	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

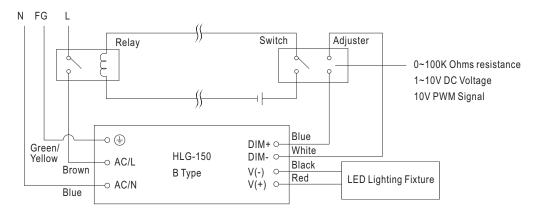
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

* 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%	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 ON/OFF:



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

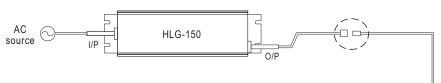
- 1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.



■ WATERPROOF CONNECTION

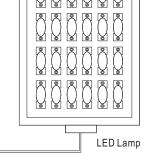
Waterproof connector

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

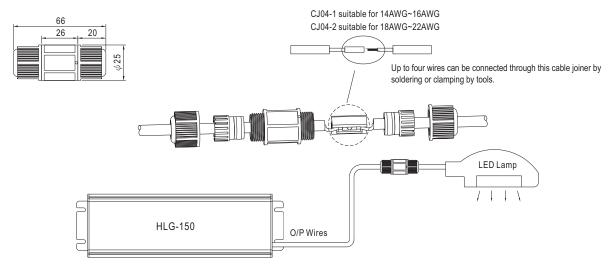


Size	Pin Configuration (Female					
M12	00	000				
IVITZ	4-PIN	5-PIN				
	5A/PIN	5A/PIN				
Order No.	M12-04	M12-05				
Suitable Current	10A max.	10A max.				

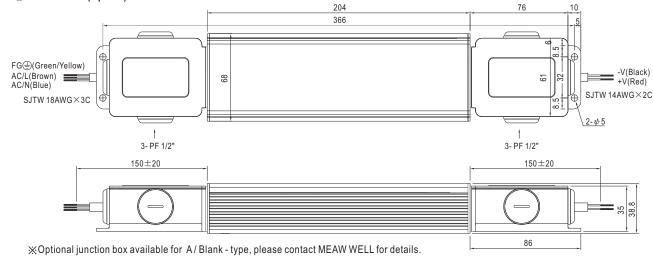
Size	Pin Configuration (Female)					
M15	$\bigcirc \circ$					
WITO	2-PIN					
	12A/PIN					
Order No.	M15-02					
Suitable Current	12A max.					



O Cable Joiner



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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mean Well:

HLG-150-42A HLG-150-42B HLG-150-48B

MEAN WELL:

<u>HLG-150-12</u> <u>HLG-150-12A</u> <u>HLG-150-12B</u> <u>HLG-150-15</u> <u>HLG-150-15A</u> <u>HLG-150-15B</u> <u>HLG-150-20</u> <u>HLG-150-20A</u> <u>HLG-150-20B</u> <u>HLG-150-24</u> <u>HLG-150-24A</u> <u>HLG-150-24B</u> <u>HLG-150-30B</u> <u>HLG-150-30A</u> <u>HLG-150-30B</u> <u>HLG-150-30B</u> <u>HLG-150-36A</u> HLG-150-36B HLG-150-42 HLG-150-48 HLG-150-48A HLG-150-54 HLG-150-54A HLG-150-54B</u>