





- 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

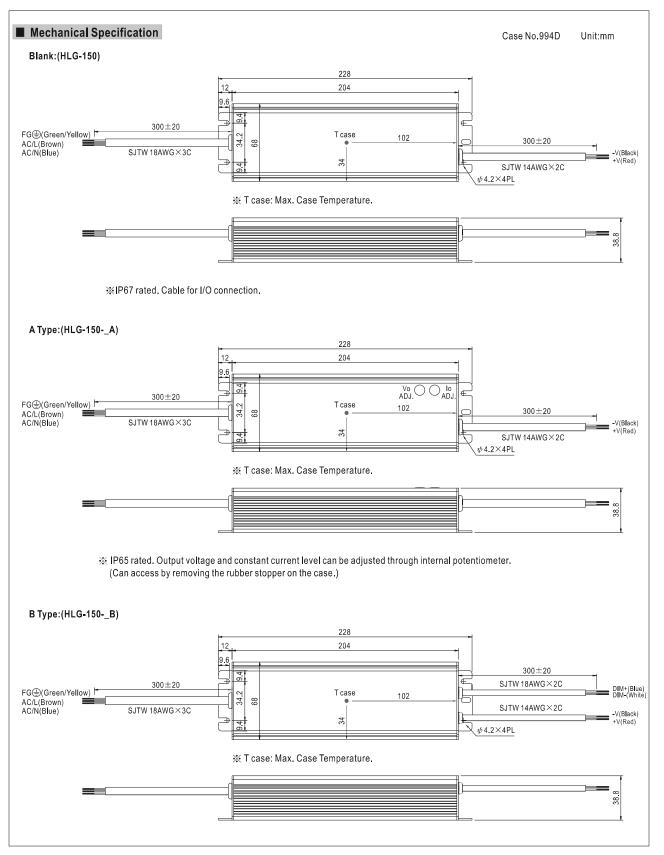
Blank: IP67 rated. Cable for I/O connection.

- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- $B: IP67\ rated.\ Constant\ current\ level\ adjustable\ through\ output\ cable\ with\ 1\sim10Vdc\ or\ 10V\ PWM\ signal\ or\ resistance.$
- D (option, safety pending): IP67 rated. Timer dimming function, contact MEAN WELL for details.

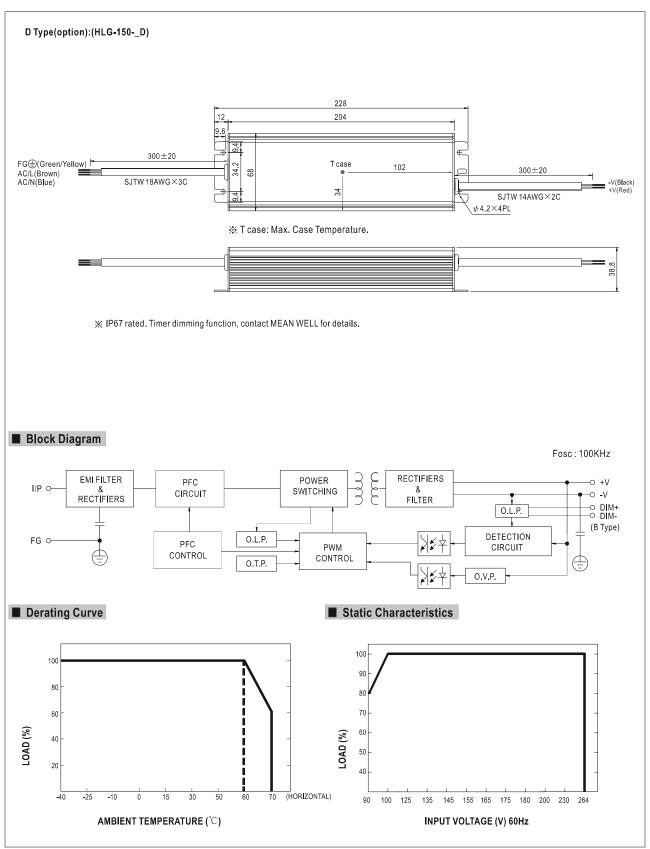
SPECIFICATION

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	6 ~12V	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	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p		
	VOLTAGE ADJ. RANGE Note.6	10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V		
OUTPUT		Can be adjusted by internal potentiometer A type only										
	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	±2.5%	±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.8	1000ms,50ms	/115VAC 50	0ms,50ms/23	OVAC at full loa	d; B type 100	0ms,200ms/11	5VAC 500m	s,200ms/230V/	AC at 95% load		
	HOLD UP TIME (Typ.)	16ms at full load 230VAC / 115VAC										
	VOLTAGE RANGE Note,5	90 ~ 264VAC	127 ~ 370	VDC								
	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR (Typ.)	PF>0.98/115\	AC, PF>0.95/2	230VAC (Pleas	e refer to "Pow	er Factor Char	acteristic" curv	re)				
INPUT	EFFICIENCY (Typ.)	92%	92.5%	93%	93,5%	93.5%	93,5%	94%	94%	94%		
	AC CURRENT (Typ.)	1.7A / 115VA	0.75A/	230VAC	1	1						
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=425 \(\mu\) s measured at 50% peak) at 230VAC										
	LEAKAGE CURRENT	<0.75mA / 240VAC										
		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										
PROTECTION		14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V		
	OVER VOLTAGE								0. 001	111		
	OVER TEMPERATURE	Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery Shut down o/p voltage, recovers automatically after temperature goes down										
	WORKING TEMP.	-40 ~ +70 °C (Refer to "Derating Curve")										
	WORKING HUMIDITY	,	non-condensir	,								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,		.5								
	TEMP. COEFFICIENT	±0.03%/°C (
	VIBRATION		,	le period for 7	72min_each alo	nn X Y 7 axe	<u> </u>					
	TIDIO (TO)	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	-		G:2KVAC O/								
EMC	ISOLATION RESISTANCE			10M Ohms / 50								
LIIIO	EMC EMISSION						lass C (>60%	Inad) : EN610	00-3-3			
	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	192.2K hrs mi		K-217F (25°C)		JUZT, light mat	astry level (sur	go +itv), cittor	ia A			
OTHERS	DIMENSION	228*68*38.8n		7K-2171 (25 °)	<u> </u>							
	PACKING		s/14,8Kg/0,8Cl	IFT								
		0. 1			ut rated load	and 25°C of ar	mhiant tampar	aturo				
NOTE		ılly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12″ twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.										
	3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Please refer to "DRIVING METHODS OF LED MODULE". 5. Derating may be needed under low input voltages. Please check the static characteristics for more details. 6. A type only.											
		afety and EMC design refer to EN60598-1, CNS15233, GB7000.1, FCC part18.										
		ength 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 fin	Isidered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the infinal equipment manufacturers must re-qualify EMC Directive on the complete installation again.										
	10. Refer to warranty statemer	nt.				·		•				
	11. To fulfill requirements of th	e latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently										



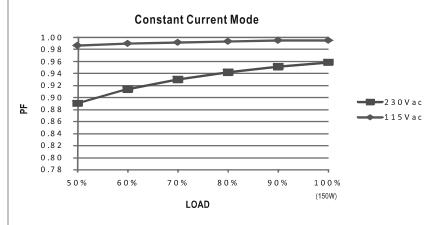






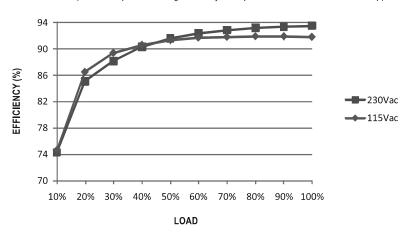


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

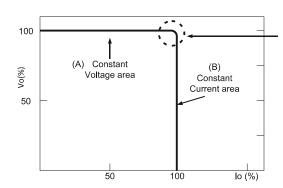


■ DRIVING METHODS OF LED MODULE

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)



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

Resistance	Single driver	10KΩ	20K Ω	30KΩ	40K Ω	50K Ω	60KΩ	70KΩ	80KΩ	90K Ω	100K Ω	OPEN
value	Multiple drivers	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	
Percenta	ge of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

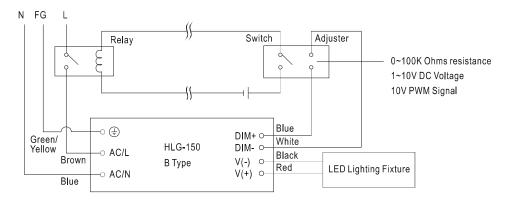
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

* 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%

- **Wusing 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.

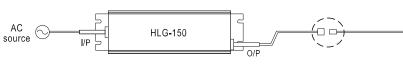
- 1.Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.
- 2. The LED lighting fixture can be turned ON/OFF by the switch.





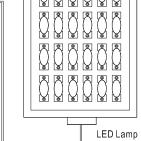
Waterproof connector

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

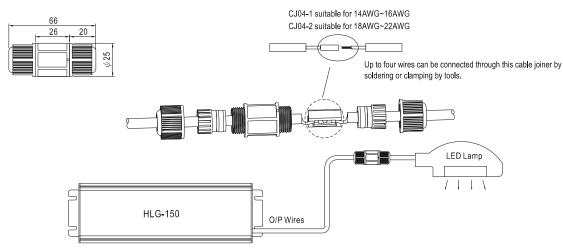


Size	Pin Configura	ition (Female)			
M12	00	\(\odots\)			
IVITZ	4-PIN	5-PIN			
	5A/PIN	5A/PIN			
Order No.	M12-04	M12-05			
Suitable Current	10A max.	10A max.			

Pin Configuration (Female					
00					
2-PIN					
12A/PIN					
M15-02					
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.

\odot Junction Box(Option)

