

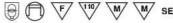


Features:

- · 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















HLG-150-12 A

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

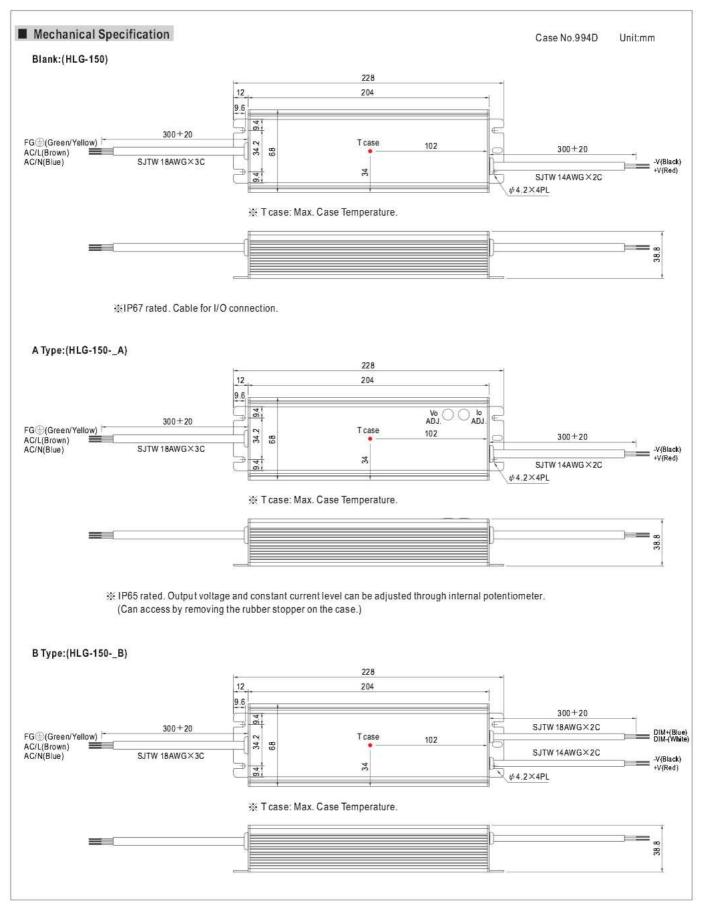
- A: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.
- D (option, safety pending): IP67 rated. Timer dimming function, contact MEAN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

SPECIFICATION

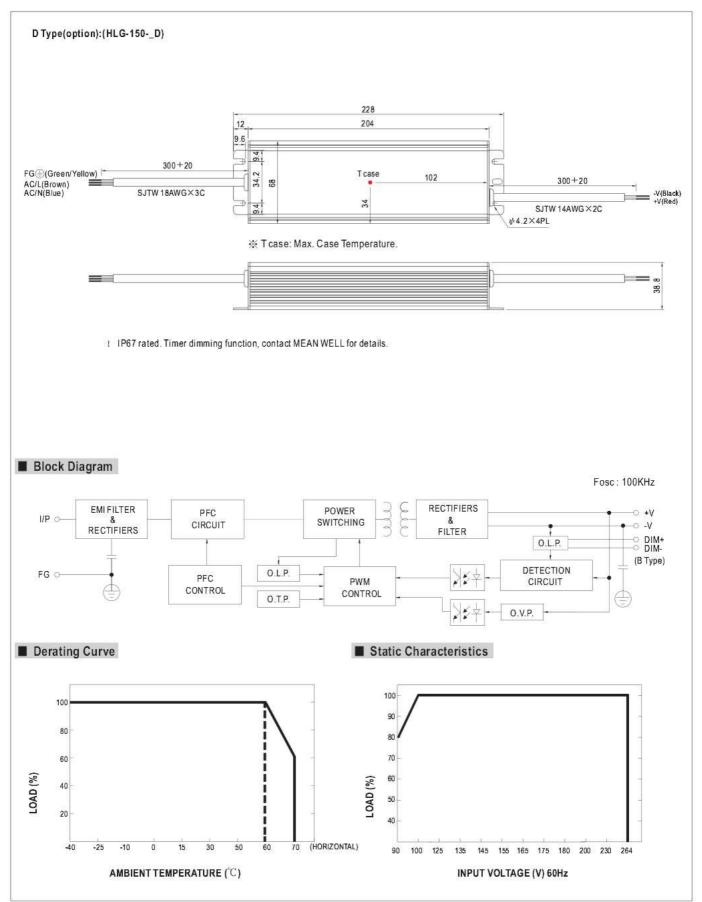
MODEL		HLG-150-12	HLG-150-15	HLG-150-20	HLG-150-24	HLG-150-30	HLG-150-36	HLG-150-42	HLG-150-48	HL G-150-54			
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V			
	CONSTANT CURRENT REGION Note.4	6-12V	7.5 ~ 15V	10 - 20V	12 - 24V	15 - 30V	18 ~ 36 V	21~42V	24 - 48V	27 ~ 54V			
	RATED CURRENT	12.5A	10A	7.5A	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	200 mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE Note.6			17 - 22 V	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%			
		1000ms,50m		00ms 50ms/23			00ms 200ms/1	15VAC 500m	NAME OF TAXABLE PARTY.	A STATE OF THE PARTY OF THE PAR			
	HOLD UP TIME (Typ.)	1000ms,50ms/115VAC 500ms,50ms/230VAC at full load; B type 1000ms,200ms/115VAC 500ms,200ms/230VAC at 95% lo. 16ms at full load 230VAC / 115VAC											
		90 ~ 264VAC	127 ~ 37										
	FREQUENCY RANGE	47 ~ 63Hz	121 01	0000									
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC (Please refer to "Power Factor Characteristic" curve)											
INPUT	EFFICIENCY (Typ.)	92%	92.5%	93%	93.5%	93.5%	93.5%	94%	94%	94%			
INFO	AC CURRENT (Typ.)	1.7A / 115VA	137.0000000	230VAC	93.3%	33.376	93.3%	3470	3470	3470			
		THE STATE OF THE S	20	5µs measured	at 50% least at	23U/AC							
	INRUSH CURRENT (Typ.)	NOON THE WOOD AND ADDRESS OF		op s measureu	at 50% ipeak/at	ZJUVAC							
	LEAKAGE CURRENT	<0.75mA/240VAC											
	OVER CURRENT	95 ~ 108%											
		Protection type: Constant current limiting, recovers automatically after fault condition is removed											
PROTECTION	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed											
	OVER VOLTAGE	14 ~ 17V	18 - 21V	23 ~ 27V	28 - 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V			
		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											
	OVER TEMPERATURE	Shut down or	p voltage, red	overs automa	tically after te	mperature goe	sdown						
	WORKING TEMP.	-40 - +70°C (Refer to "Dera	ting Curve")									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing											
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	10 ~ 95% RH										
	TEMP. COEFFICIENT	+0.03%/°C	(0 ~ 50°C)										
	VIBRATION	10 - 500 Hz,	5G 12min./1cy	cle, period for	72min. each al	ong X, Y, Z axe	es						
	SAFETY STANDARDS Note.7			50.0-08, EN61 , TUV EN6095		47-2-13 indep	endent IP65 o	r IP67, J61347	-1, J61347-2-	13 approved			
SAFETY &	WITHSTAND VOLTAGE			G:2KVAC C		١٢.							
EMC	ISOLATION RESISTANCE			00M Ohms / 50		NAME OF TAXABLE PARTY.							
LING	EMC EMISSION						Clare C (> 600	/ load\ : ENE10	00.3.3				
	EMC IMMUNITY	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≧ 60% load) ; EN61000-3-3											
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A											
OTHERS	DIMENSION	192.2K hrs min. MIL-HDBK-217F (25°C) 228°68°38.8mm (L*W*H)											
UTHERS			s/14.8Kg/0.8C	UET									
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 u 6. A type only. 7. Safety and EMC design refe 8. Length of set up time is me 9. The power supply is consident.	ly mentioned a ed at 20MHz o tolerance, line METHODS OF oder low input er to EN60598 asured at cold	are measured f bandwidth b regulation an LED MODUL voltages. Plea I-1, CNS1523. first start. Tur	at 230 VAC inp y using a 12" t d load regulation. E". ise check the s 3, GB7000.1, Fining ON/OFF	wisted pair-winden. static characte FCC part18. the power sup	re terminated viristics for more	with a 0.1uf & 4 details. to increase of the	47uf parallel ca	Page at	61616.			

- 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.
- 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



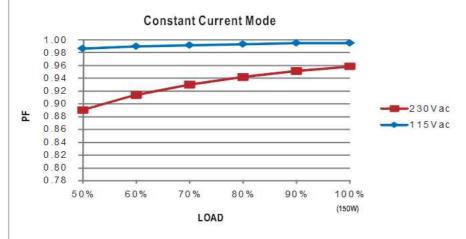






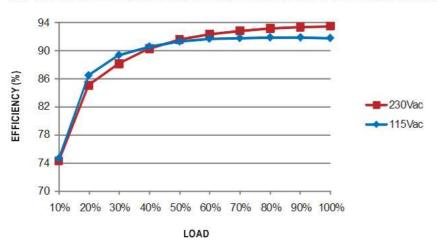


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (48V Model)

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

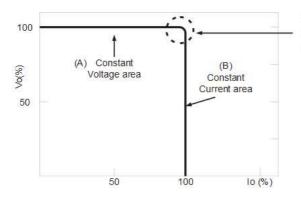


■ DRIVING METHODS OF LED MODULE

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)



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

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

! 1 ~ 10V dimming function for output current adjustment (Typical)

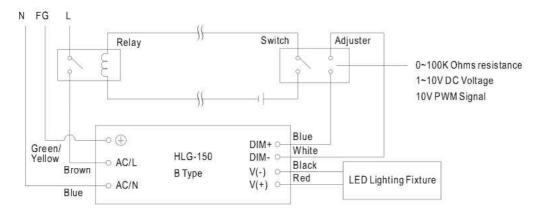
Dimming value	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%

! 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%

- ! Using 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

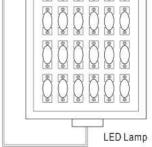
Waterproof connector

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

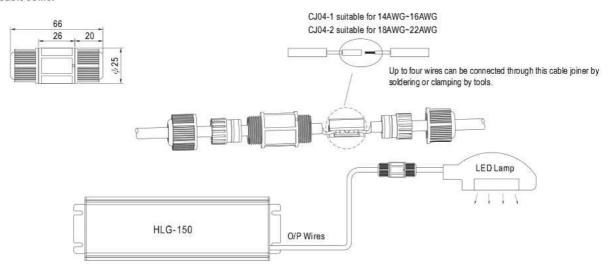


Size	Pin Configuration (Female)						
	000	000					
M12	4-PIN	5-PIN					
	5A/PIN	5A/PIN					
Order No.	M12-04	M12-05					
Suitable Current	10A max.	10A max.					

Size	Pin Configuration (Female)
M15 -	00
	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.

O Junction Box(Option)

