

# 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
- Type HL LED Driver for use in Class  $\,\,I$  , Division 2 hazardous location luminaires
- 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)



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HLG-150H-12 A Blank : IP67 rated. Cable for I/O connection.

HLG-100

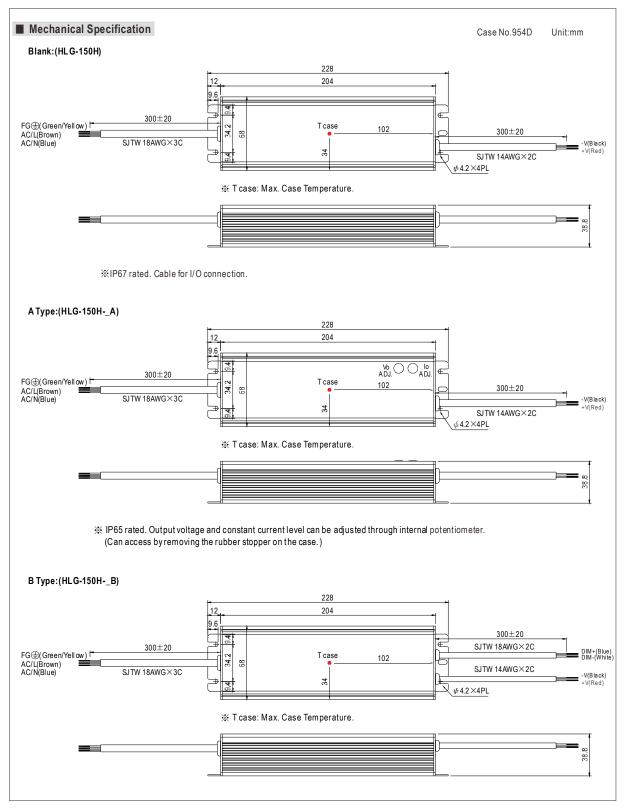
- A : IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.
- B: IP67 rated. Constant current level adjustable through output cable with 1~10Vdc or 10V PWM signal or resistance.
- D (option, safety pending) : IP67 rated. Timer dimming function, contact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

### SPECIFICATION

MODEL		HLG-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			
	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	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p			
	VOLTAGE ADJ. RANGE Note.6		13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38~46V	43 ~ 53V	49 ~ 58V			
ουτρυτ	VOLINGE ADD. MANGE NOLE.U	Can be adjusted by internal potentiometer A type only											
001101	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%	± 1.0 %	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±2.0%	±0.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
								1					
		1000ms,50ms/115VAC 500ms,50ms/230VAC at full load ; B type 1000ms,200ms/115VAC 500ms,200ms/230VAC at 95% loa 16ms at full load 230VAC / 115VAC											
	HOLD UP TIME (Typ.)												
		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) THD<20% when output loading≧60% at 115VAC/230VAC input and output loading≧75% at 277VAC input											
INPUT					1								
	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=425)//s measured at 50% lpeak) at 230VAC											
	LEAKAGE CURRENT	<0.75mA/277VAC											
	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 ~ 27 V	28 ~ 34V	34 ~ 38V	41~46V	47 ~ 53V	54 ~ 63V	59 ~ 65V			
	OVERVOEINOE	Protection typ	e : Shut down	o/p voltage wit	h auto-recover	y or re-power o	n to recovery						
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down											
	WORKING TEMP.	-40 ~ +70 $^\circ \rm C$ (Refer to "Derating 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	10~500Hz, 5	iG 12min./1cyc	le, period for 7	72min. each ale	ong X, Y, Z axe	S						
		UI 8750 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 & EMC	WITHSTAND VOLTAGE	I/P-0/P:3.75KVAC I/P-FG:2KVAC 0/P-FG:1.5KVAC											
	ISOLATION RESISTANCE	I/P-O/P.S./3KVAC I/P-FG:2KVAC 0/P-FG:1.5KVAC I/P-O/P, I/P-FG, 0/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH											
	EMC EMISSION						$lass C (\geq 60\%)$	load) · 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 m		K-217F (25°C)		002 I, IIgittiliat		<i>yo nici)</i> , onco					
OTHERS	DIMENSION	228*68*38.8n		112111 (20 0)	/								
	PACKING	1.15Kg; 12pcs/14.8Kg/0.8CUFT											
NOTE	<ol> <li>Ripple &amp; noise are measured.</li> <li>Tolerance : includes set up 4. Please refer to "DRIVING M 5. Derating may be needed ur 6. A type only.</li> <li>Safety and EMC design refi 8. Length of set up time is me 9. The power supply is consid</li> </ol>	s NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. e are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. cludes set up tolerance, line regulation and load regulation. o "DRIVING METHODS OF LED MODULE". be needed under low input voltages. Please check the static characteristics for more details. WC design refer to EN60598-1, subject 8750(UL), CNS15233, GB7000.1, FCC part18. up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. ipply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by tf allation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.											

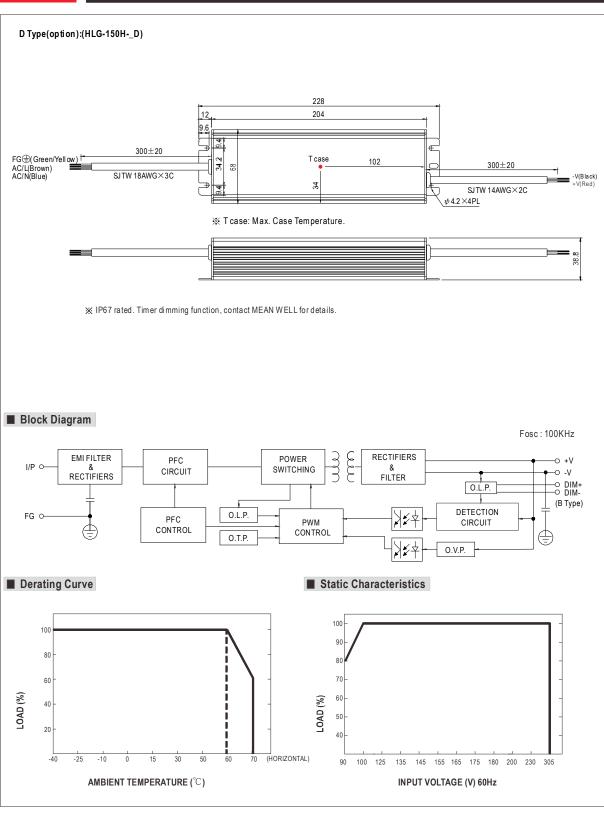
11. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.



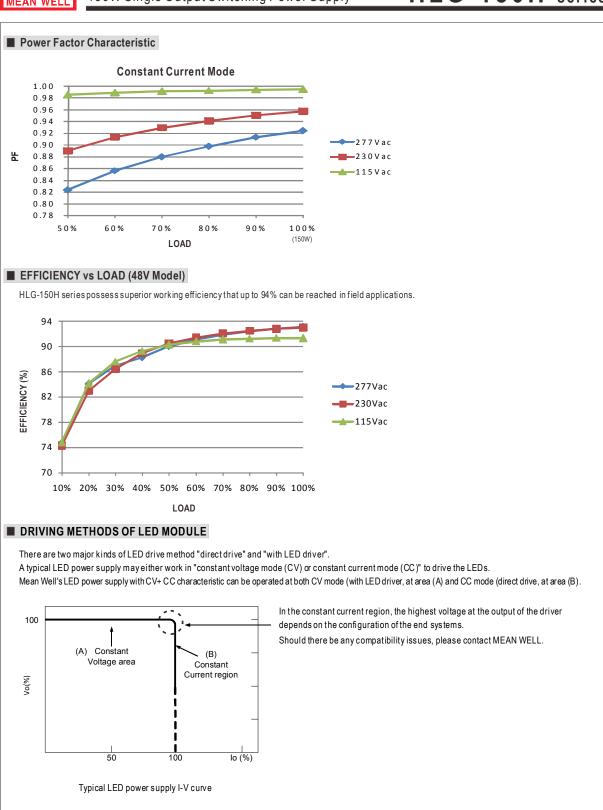




150W Single Output Switching Power Supply







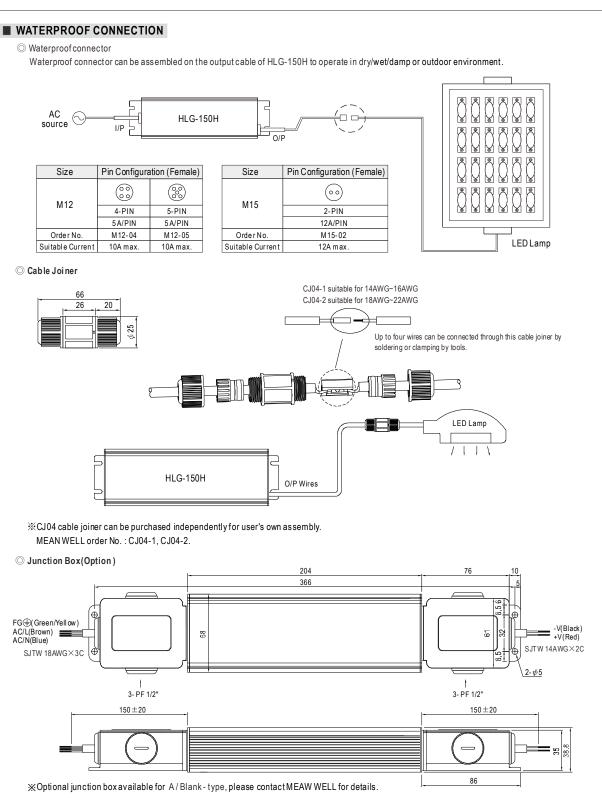


G@(Green/Yellow) C/L(Brown) C/N(Blue)					HLG-150H								
1 ~ 10Vc % Please D	in 1 dimming functi ic or 10V PWM sign 00 NOT connect "DI ce resistance value	al betwee M-" to "-\	en DIM+a /".	nd DIM			can be ad	djusted t h	nrough ou	itput cabl	e by conn	lecting a resis	tance or
Resistance	Single driver	<b>10K</b> Ω	<b>20K</b> Ω	<b>30K</b> Ω	<b>40K</b> Ω	<b>50K</b> Ω	<b>60K</b> Ω	<b>70K</b> Ω	<b>80K</b> Ω	<b>90K</b> Ω	$100 \text{K}\Omega$	OPEN	1
value	Multiple drivers (N=driver quantity for synchronized dim ming operation)	10K Ω/N	20K Ω /N	30K Ω/N	40K Ω/N	50K Ω/N	60K Ω/N	70KΩ/N	80K Ω /N	90K Ω/N	100K Ω /N		
Percentag	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%	
€ 1 ~ 10V o	limming function fo	r output c	urrent ad	justment	(Typical)								
Dimming v	alue	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN	
Percentag	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%	
< 10V PW	A signal for output c	urrentad	ljustment	(Typical)	: Freque	ncy range	e:100Hz	~ 3KHz					
Duty value		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN	
Percentag	e of rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%~108%	
©Direct co		suggeste	ed, but is	not suital	ble for us	ing additi		ers.	1~1	~100K O 0V DC Vo PWM Sig	U U	stance	
Gre Yel	en/ ow Brown Blue AC		HLG-15 B Type	50 H	DIM+ 0 DIM- 0 V(-) 0 V(+) 0	Black		ED Lighti	ngFixtur	e			

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.





## **Mouser Electronics**

Authorized Distributor

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### Mean Well:

 HLG-150H-12
 HLG-150H-12A
 HLG-150H-12B
 HLG-150H-15
 HLG-150H-15A
 HLG-150H-15B
 HLG-150H-20
 HLG-150H-20

 150H-20A
 HLG-150H-20B
 HLG-150H-24
 HLG-150H-24A
 HLG-150H-24B
 HLG-150H-30
 HLG-150H-30A
 HLG-150H-30A

 150H-30B
 HLG-150H-36
 HLG-150H-36A
 HLG-150H-36B
 HLG-150H-42A
 HLG-150H-42A
 HLG-150H-42B
 HLG-150H-54AB
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