







Applications

· LED street lighting

LED fishing lamp

GTIN CODE

LED high-bay lighting

Parking space lighting

LED greenhouse lighting

Type "HL" for use in Class I , Division 2

hazardous (Classified) location.

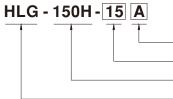
### Features

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- · IP67 / IP65 rating for indoor or outdoor installations
- · Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

### Description

#### MW Search: <u>https://www.meanwell.com/serviceGTIN.aspx</u> HLG-150H series is a 150W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-150H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for $-40^{\circ}$ C $\sim$ +90°C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-150H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

### Model Encoding



Function options Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V) Rated wattage Series name

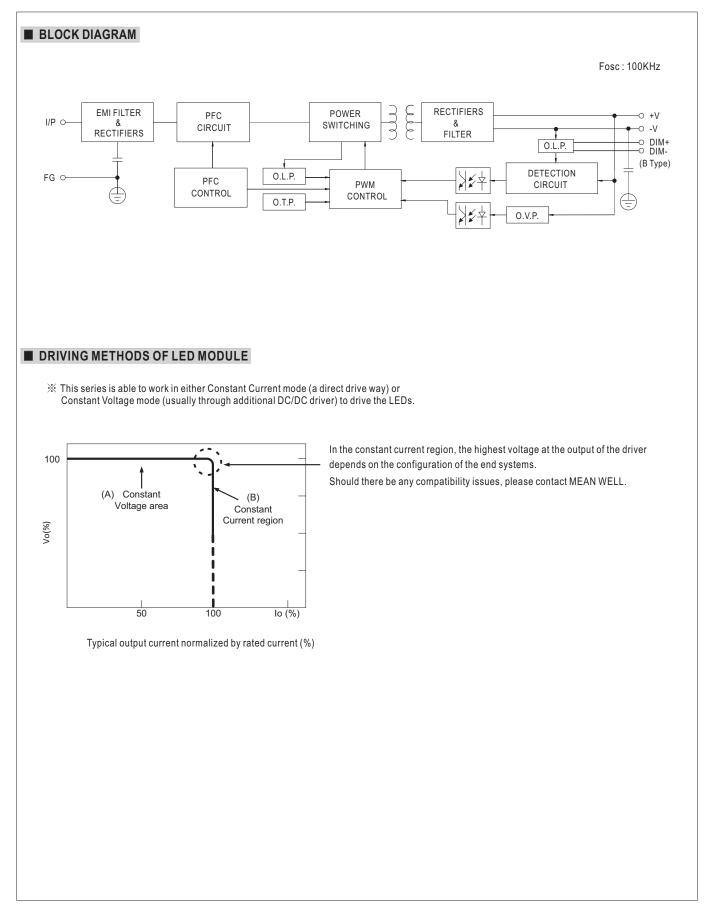
Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



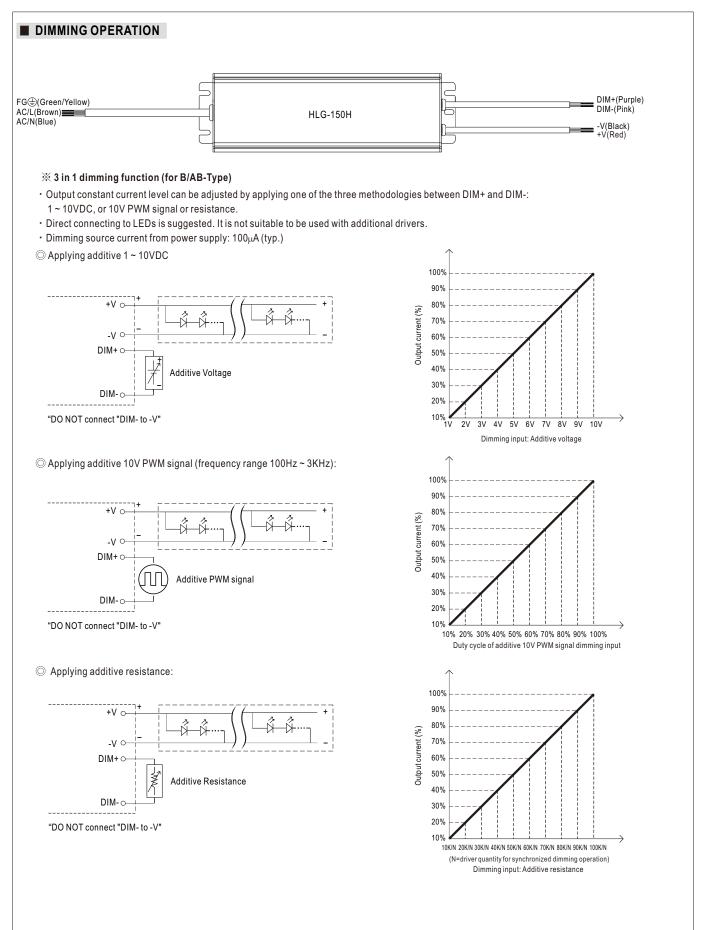
#### SPECIFICATION

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		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	12.3A	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	-			
	RIPPLE & NOISE (IIIax.) Note.2					200mVp-p	200111vp-p	200mvp-p	200mVp-p	200mVp-p		
	VOLTAGE ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)										
Ουτρυτ		10.8 ~ 13.5V       13.5 ~ 17V       17 ~ 22V       22 ~ 27V       27 ~ 33V       33 ~ 40V       38 ~ 46V       43 ~ 53V       49 ~ 58V										
	CURRENT ADJ. RANGE	Adjustable fo	r A/AB-Type o	nly (via built-ir	n potentiomete	er)				1		
		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	$\pm 2.5\%$	±2.0%	±1.0%	$\pm 1.0\%$	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	$\pm 0.5\%$	±0.5%	±0.5%	$\pm 0.5\%$	±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.6	1000ms,200ms/115VAC 500ms,200ms/230VAC										
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC										
		90 ~ 305VAC 127 ~ 431VDC										
-	VOLTAGE RANGE Note.5											
	FREQUENCY RANGE	47 ~ 63Hz										
	TREQUENCTRANGE											
	POWER FACTOR (Typ.)	PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC @ full load										
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)										
	TOTAL HARMONIC DISTORTION	THD< 20% (@ load≧60% / 115VAC,230VAC; @ load≧75% / 277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)										
INPUT		`			· · · ·	, ,						
	EFFICIENCY (Typ.)	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%		
	AC CURRENT (Typ.)	1.7A / 115VA	C 0.75A/	230VAC	0.7A/277VAC							
	INRUSH CURRENT (Typ.)	COLD START	65A(twidth=425	us measured a	t 50% Ipeak) at 2	230VAC; Per N	EMA 410					
	MAX. No. of PSUs on 16A	A			ainer it has also		201/40					
	<b>CIRCUIT BREAKER</b> 4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC											
	LEAKAGE CURRENT	<0.75mA/277VAC										
PROTECTION		95~108%										
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed										
		14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59~65V		
	OVER VOLTAGE						41~40V	4/~ 33V	54~05V	<u>59~05v</u>		
				auto-recovery o	· · ·							
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down										
	WORKING TEMP.Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)											
	MAX. CASE TEMP.Tcase= +90°C											
	WORKING HUMIDITY	20 ~ 95% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT $\pm 0.03\%^{\circ}C$ (0 ~ 60°C)											
	VIBRATION	10 ~ 500Hz. 5	5G 12min./1cvc	le, period for	72min, each alo	ong X. Y. Z axe	s					
		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.0-08; BS EN/EN 61347-1, BS EN/EN 61347-2-13, AS/NZS 61347-1(except for AB-type), AS/NZS 61347-2-13(except for AB-type) independent: GB19510.1 GB19510.14: IP65 or IP67: I61347-1 I61347-2-13(except for AB-type),										
		AS/NZS 61347-2-13(except for AB-type) independent; GB19510.1, GB19510.14; IP65 or IP67; J61347-1, J61347-2-13(except for B										
		AB and D-type),BIS IS15885( for 12,24,36,54A/B only), EAC TP TC 004; KC61347-1,KC61347-2-13(except for D-type) approved										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC										
EMC	ISOLATION RESISTANCE			00M Ohms / 50								
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class C (@ load≧60%);								);		
	BS EN/EN01000-3-3,0B1/743 and GB17023.1, EAC 1P1C 020											
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020										
	WTOF	2176.1K hrs min. Telcordia SR-332(Bellcore); 166.4K hrs min. MIL-HDBK-217F (25°C)										
ł	MTBF			iia SR-332(Be	elicore); 16	0.4K hrs min.	MIL-HDBK-	217F (25 C)				
	DIMENSION	228*68*38.8n										
	PACKING	0.1	s/14.8Kg/0.8Cl									
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.											
	2. Ripple & noise are measured 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. De-rating may be needed ur	•	•									
	6. Length of set up time is mea			•				•	bo offected by	tho		
	7. The driver is considered as a	•	•				•		be affected by	ule		
	complete installation, the fina							-	ormanonthy			
	8. To fulfill requirements of the	ialesi Err regi	uialion for light	ing instures, thi	S LED ariver o	an only de us	eu Denind a s	MICH WITHOUT P	ermanently			
	<ul><li>connected to the mains.</li><li>9. This series meets the typical</li></ul>	life evnectors	w of 262 000 4	nurs of oppro	tion when Too	e narticularly	(to) point (or		) is about 20%	or less		
	10. Please refer to the warrant	•						, per DLO	, 13 about 00 C	01 1000.		
	-				•		models for o	perating altitud	e higher than ?	2000m(6500		
	11. The ambient temperature derating of 3.5 <sup>°</sup> C/1000m with fanless models and of 5 <sup>°</sup> C/1000m with fan models for operating altitude higher than 2000m(6500ft) 12. For any application note and IP water proof function installation caution, please refer our user manual before using.											
	<ol> <li>For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf</li> </ol>											
		Upload/PDF/I	ED EN.pdf									
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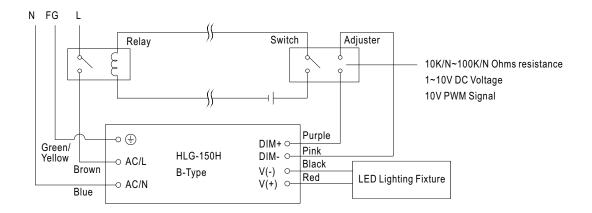






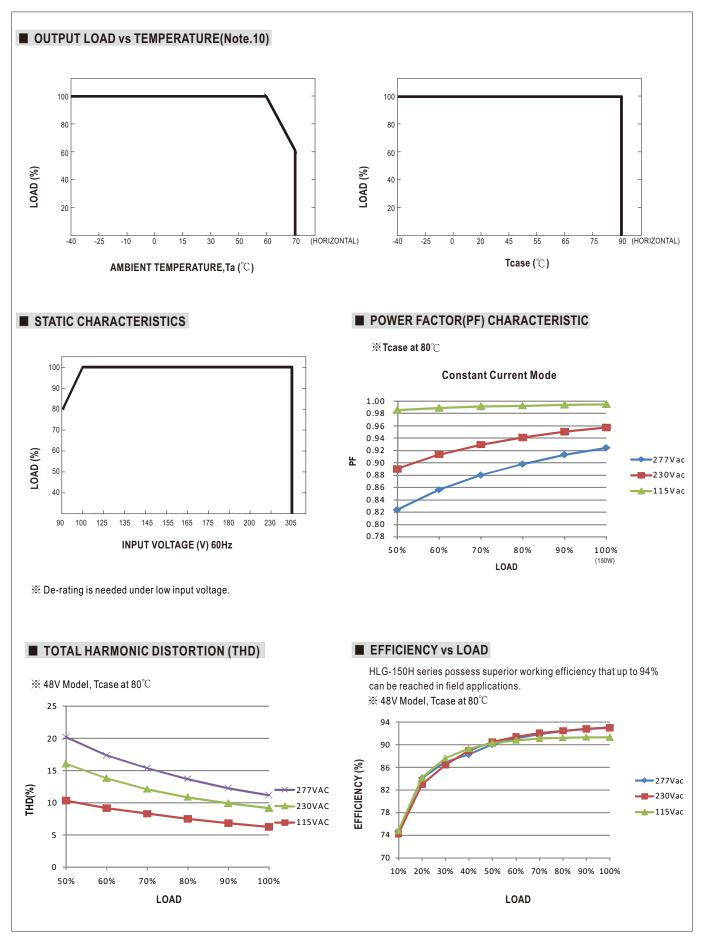
# HLG-150H series

Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

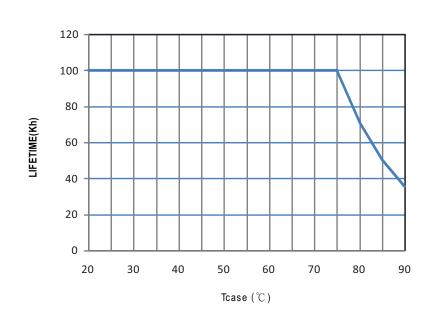




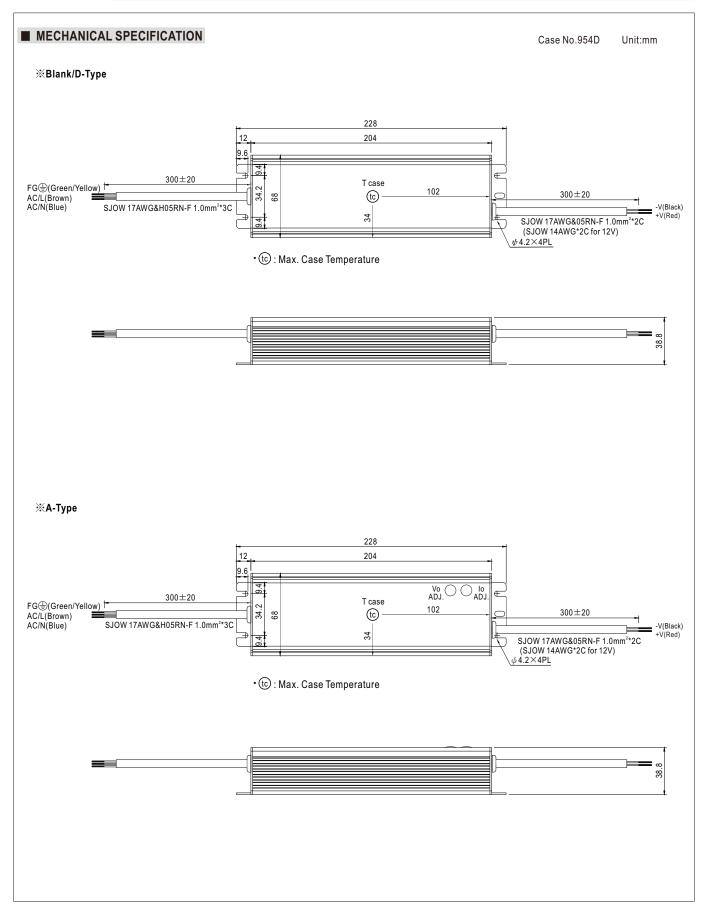


HLG-150H series

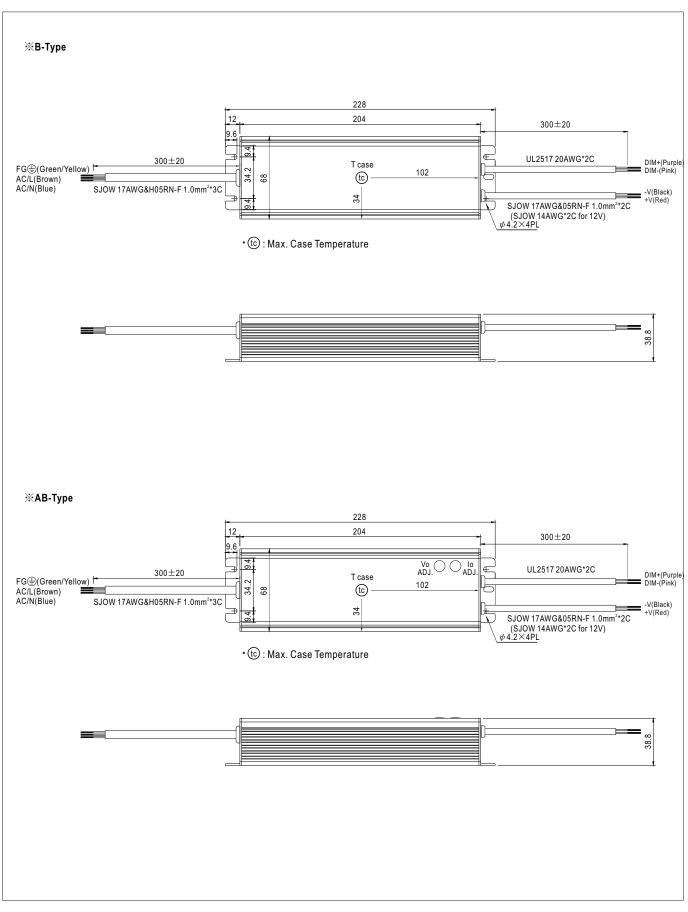
LIFE TIME











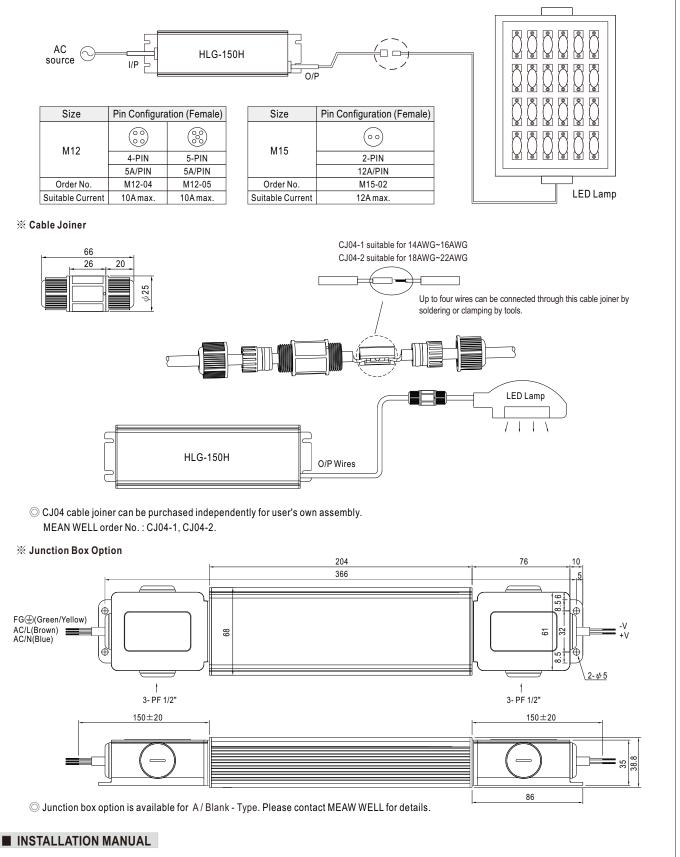


## HLG-150H series

#### WATERPROOF CONNECTION

#### $\divideontimes {\rm Waterproof\, connector}$

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



Please refer to : http://www.meanwell.com/manual.html