



























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

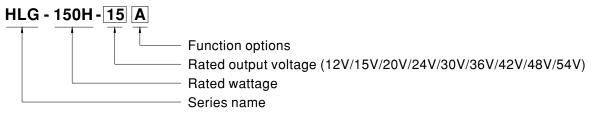
Applications

- · LED street lighting
- LED high-bay lighting
- · Parking space lighting
- · LED fishing lamp
- · LED greenhouse lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

Description

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 $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$ 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



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
Α	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





HLG-150H series

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
ОИТРИТ	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
	VOLTACE AD L DANCE	Adjustable fo	r A/AB-Type o	nly (via built-ii	n potentiomete	er)	•	•		
	VOLTAGE ADJ. RANGE	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-ii	n potentiomete	er)				
	CORRENT 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.6	1000ms,200r	ms/115VAC	500ms,200ms	s/230VAC					
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC								
	VOLTACE DANCE Note 5	90 ~ 305VAC 127 ~ 431VDC								
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF≧0.98/115	SVAC, PF≧0.9	5/230VAC, PF	≥0.92/277VA	C @ full load				
	POWER FACTOR (Typ.)	(Please refer	to "POWER FA	CTOR (PF) CH	IARACTERIST	IC" section)				
	TOTAL HARMONIC DISTORTION	THD< 20% (@ load≥60%	/ 115VAC,230	VAC; @ load	≧75% / 277VA	C)	<u> </u>	<u> </u>	
NPUT	TOTAL HARMONIC DISTORTION	(Please refe	r to "TOTAL HA	ARMONIC DIS	TORTION (TH	ID)" section)				
	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	jus measured a	t 50% Ipeak) at 2	230VAC; Per NE	EMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA/277VAC								
		95 ~ 108%								
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT					It condition is r				
ROTECTION	OVER VOLTAGE	14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V
		Shut down o/	p voltage with a	auto-recovery	or re-power on	to recovery				
	OVER TEMPERATURE					erature goes do	own			
	WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU"	TPUT LOAD v	s TEMPERATU	JRE" section)			
	MAX. CASE TEMP.	Tcase= -40 ~ +90 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) Tcase= +90 °C								
	WORKING HUMIDITY			าต						
NVIRONMENT	STORAGE TEMP., HUMIDITY	20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (
	VIBRATION	,		ele neriod for	72min_each al	ong X Y 7 aye	<u> </u>			
SAFETY & EMC	SAFETY STANDARDS	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent; GB19510.1, GB19510.14; IP65 or IP67; J61347-1, J61347-2-13,BIS IS15885(for 12B,24B,36A,54A only), EAC TP TC 004 approved;								
		Design refer to UL60950-1, TUV EN60950-1								
	WITHSTAND VOLTAGE	I/P-O/P·3 75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	.C				
	ISOLATION RESISTANCE									
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥ 60%); EN61000-3-3, GB17743 and GB17625.1, EAC TP TC 020								
	EMC IMMUNITY					iaht industry leve	l (surge immunit	tv Line-Earth 4K\	/, Line-Line 2KV)	. EAC TP TC 0
OTHERS	MTBF	192.2K hrs m		3K-217F (25°C		<u> </u>	(** 0*	,	, , , ,	,
	DIMENSION	228*68*38.8n		(/					
	PACKING	l .	s/14.8Kg/0.8CI	UFT						
ОТЕ	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 under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.									
	Length of set up time is mea The driver is considered as complete installation, the final	asured at first of a component t	cold start. Turn hat will be ope	ing ON/OFF therated in comb	he driver may ination with fin	lead to increas al equipment.	e of the set up Since EMC pe	p time. erformance will	be affected by	the the

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

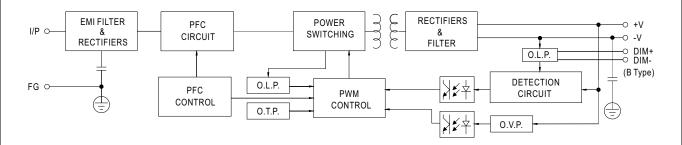
10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.

9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 80°C or less.

11. The ambient temperature derating of 3.5° C/1000m with fanless models and of 5° C/1000m with fan models for operating altitude higher than 2000m(6500ft).

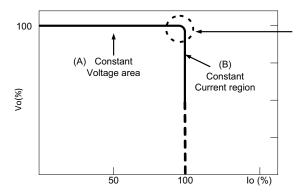
■ BLOCK DIAGRAM

Fosc: 100KHz



■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

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.





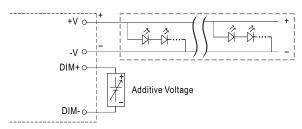
HLG-150H series

■ DIMMING OPERATION



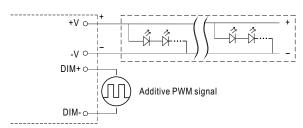
imes 3 in 1 dimming function (for B/AB-Type)

- $\cdot \ \, \text{Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:}$
 - 1 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: $100\mu A$ (typ.)
- O Applying additive 1 ~ 10VDC



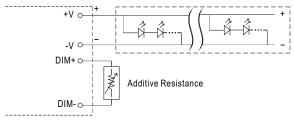
"DO NOT connect "DIM- to -V"

 \bigcirc Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

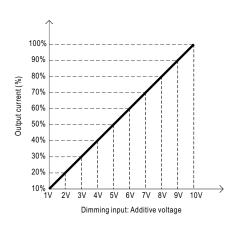


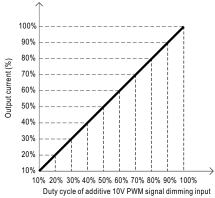
"DO NOT connect "DIM- to -V"

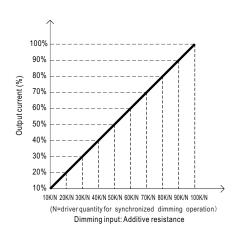
O Applying additive resistance:



"DO NOT connect "DIM- to -V"



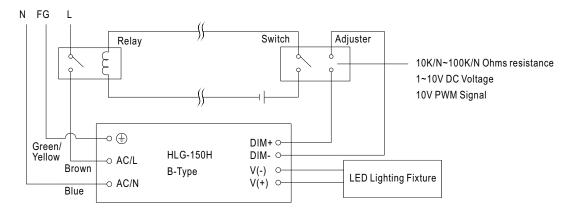






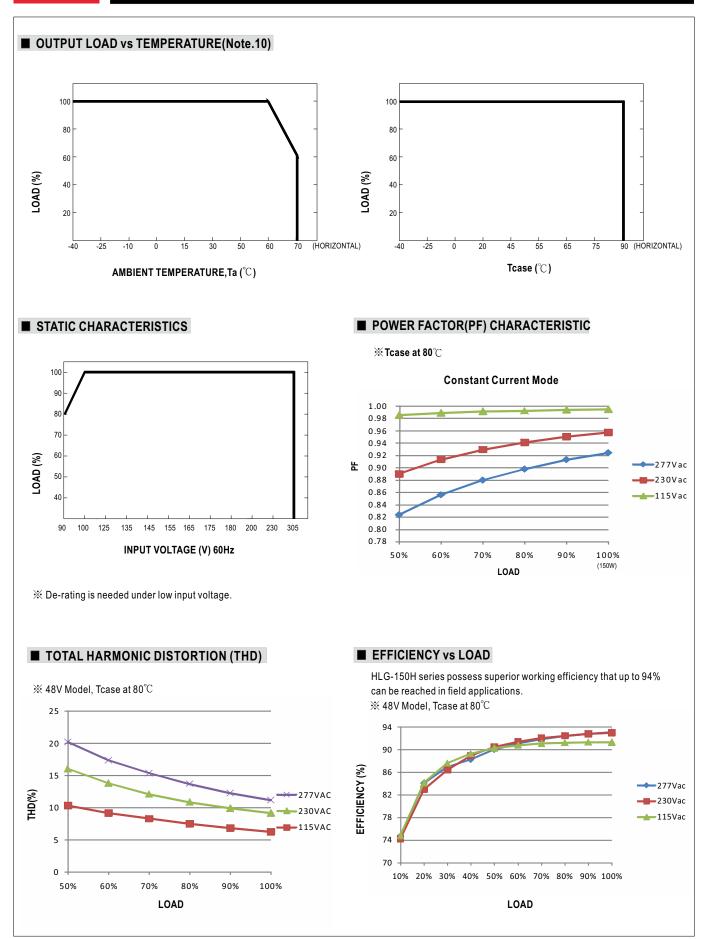
HLG-150H series

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.



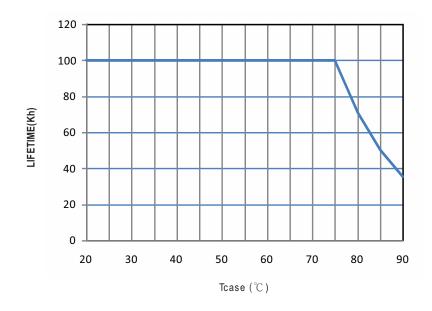
Using a switch and relay can turn $\ensuremath{\mathsf{ON/OFF}}$ the lighting fixture.







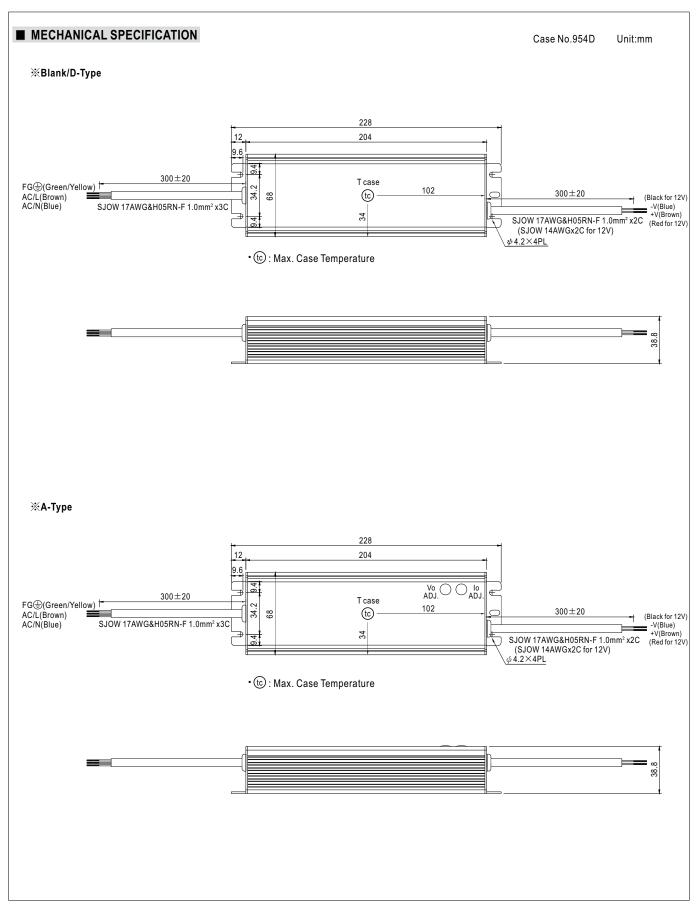
■ LIFE TIME







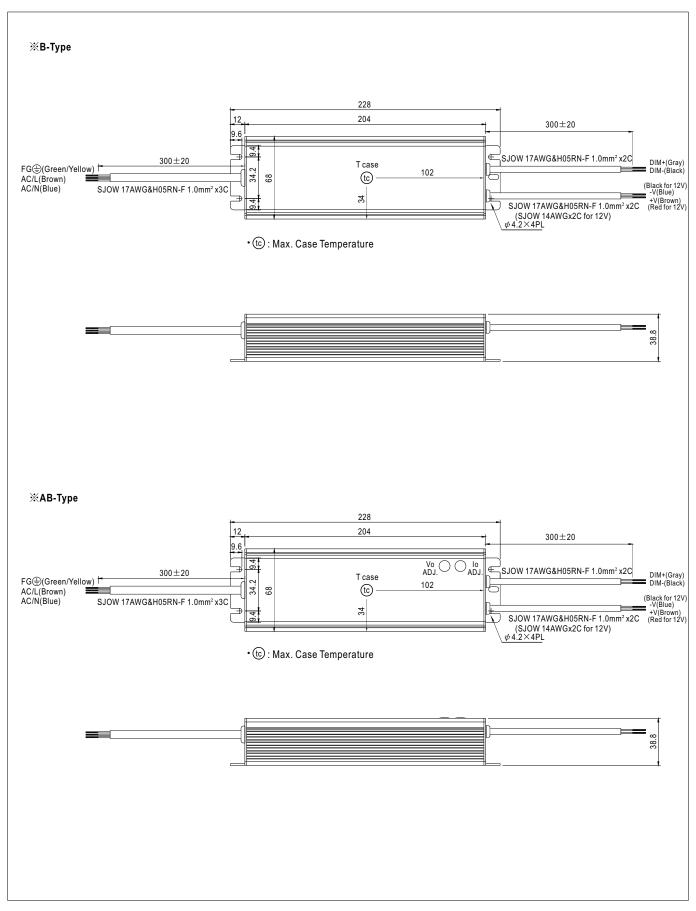
HLG-150H series







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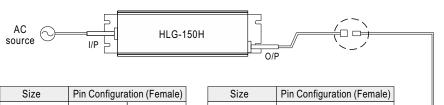


HLG-150H series

■ WATERPROOF CONNECTION

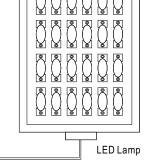
※ Waterproof connector

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

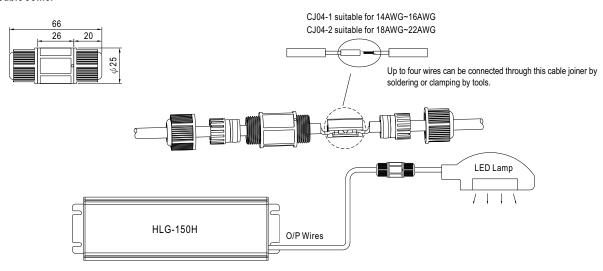


Size	Pin Configuration (Female)				
M12	000	000			
IVIIZ	4-PIN	5-PIN			
	5A/PIN	5A/PIN			
Order No.	M12-04	M12-05			
Suitable Current	10A max.	10A max.			

Pin Configuration (Female)			
·			
2-PIN			
12A/PIN			
M15-02			
12A max.			

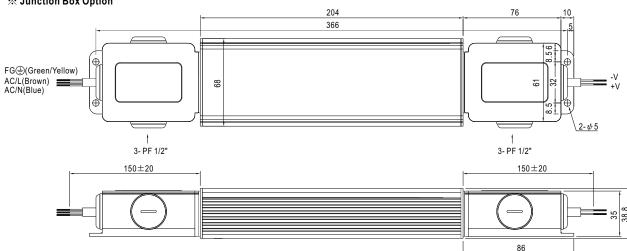


※ Cable Joiner



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

※ Junction Box Option



 $\bigcirc \ \, {\sf Junction\,box\,option\,is\,available\,for\,\,A/\,Blank\,-\,Type.\,Please\,contact\,MEAW\,WELL\,for\,details.}$

■ INSTALLATION MANUAL

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