











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

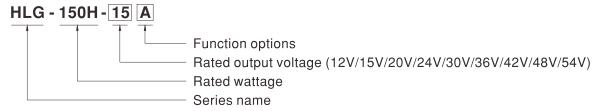
Applications

- · 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 $^{\circ}$ C ~ +90 $^{\circ}$ 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
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

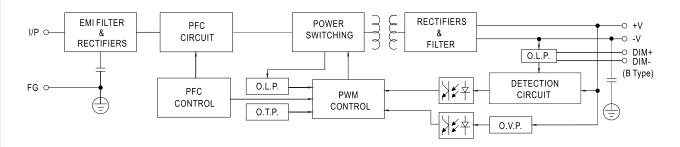


SPECIFICATION

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	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
OUTPUT	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
	(110.1010)		r A-Type only	1		200 p p			200111797	200m rp p
	VOLTAGE ADJ. RANGE			17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V
		10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V 40								
	CURRENT ADJ. RANGE	Adjustable for A-Type only (via built-in potentiometer) $7.5 \sim 12.5A = 6 \sim 10A = 4.5 \sim 7.5A = 3.8 \sim 6.3A = 3.5A = 2.5 \sim 4.2A = 2.16 \sim 3.6A = 1.92 \sim 3.2A = 1.68 \sim 2.8A$								
	VOLTACE TOLEDANCE Nate 2						±1.0%	±1.0%		
	VOLTAGE TOLERANCE Note.3		±2.0%	±1.0%	±1.0%	±1.0%	±0.5%		±1.0%	±1.0%
	LINE REGULATION	±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,200i		500ms,200ms	s/230VAC					
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC								
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC								
	VOLIMOL NAME:	(Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz								
	DOWER FACTOR (Turn)	PF≥0.98/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC @ full load								
	POWER FACTOR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)								
	TOTAL HARMONIO DIOTORTION	THD<20% (@ load≥60% / 115VAC,230VAC; @ load≥75% / 277VAC)								
INPUT	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION (THD)" 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				EMA 410			
	MAX. No. of PSUs on 16A	COLD START 65A(twidth=425µs measured at 50% lpeak) at 230VAC; Per NEMA 410								
	CIRCUIT BREAKER	4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	CO 75mA / 2771/AC								
	LLANAGE CONNENT	<0.75mA/277VAC								
	OVER CURRENT	95 ~ 108%								
	OLIOPE OIDOUE	Constant current limiting, recovers automatically after fault condition is removed Constant current limiting, recovers automatically after fault condition is removed								
PROTECTION	SHORT CIRCUIT							T	T = 1 = 221.	T = 0 = 1 /
	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 auto-recovery or re-power on to recovery								
	OVER TEMPERATURE				•	erature goes d				
	WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU	TPUT LOAD v	s TEMPERATI	JRE" section)			
	MAX. CASE TEMP.	Tcase= +90°	3							
ENVIDONMENT	WORKING HUMIDITY	20 ~ 95% RH	non-condensi	ng						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80 °C , 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)								
	VIBRATION			cle period for	72min_each al	ong X Y Z axe	S			
		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08; TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67;								
	SAFETY STANDARDS Note.8	J61347-1, J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC								
	WITHSTAND VOLTAGE									
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH .8 Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (@ load ≥ 60%); EN61000-3-3								
	EMC EMISSION Note.8			,	,			,		
	EMC IMMUNITY					55024, light ind	ustry level (sur	ge immunity Li	ne-Earth 4KV,	Line-Line 2K
	MTBF	192.2K hrs m		BK-217F (25°C	(1)					
OTHERS	DIMENSION	228*68*38.8r	nm							
	PACKING	1.15Kg; 12pc	s/14.8Kg/0.8C	UFT						
NOTE	 All parameters NOT special 	•								
		oise 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.									
	6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the									
	7. The driver 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. 8. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details.									
		of CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model. Please contact MEAN WELL for details. s of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently								
	connected to the mains.	o latest an regulation ingriting intuites, this tab driver earl only be used beliefed a switch without permanently								
		oical life expectancy of >62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 80°C or less.								
	**	ase refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com								

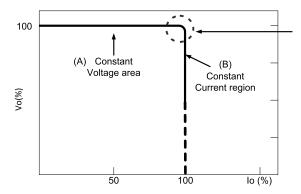
■ BLOCK DIAGRAM

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.



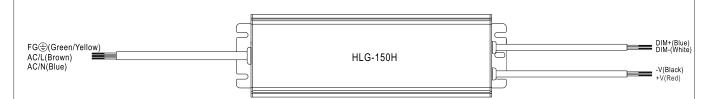
Typical output current normalized by rated current (%)

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.

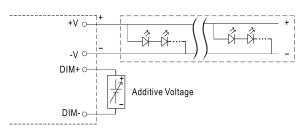


■ DIMMING OPERATION



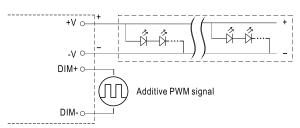
imes 3 in 1 dimming function (for B-Type)

- 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



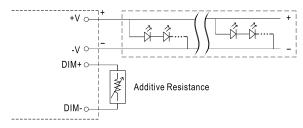
"DO NOT connect "DIM- to -V"

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

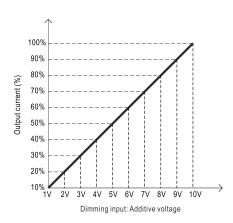


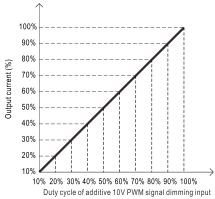
"DO NOT connect "DIM- to -V"

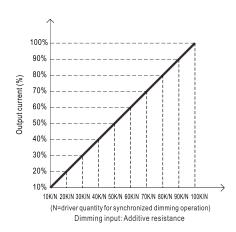
Applying additive resistance:



"DO NOT connect "DIM- to -V"

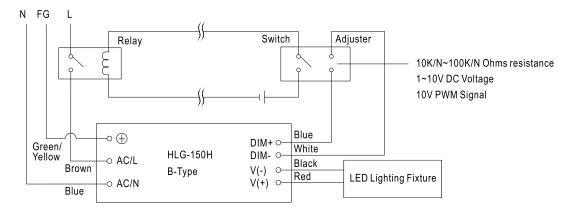






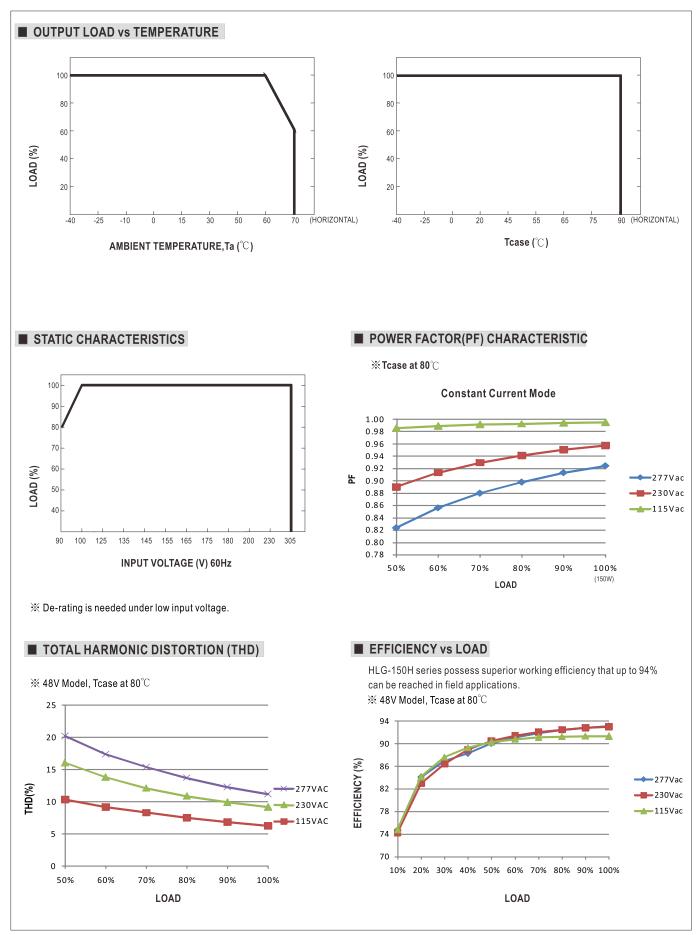


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



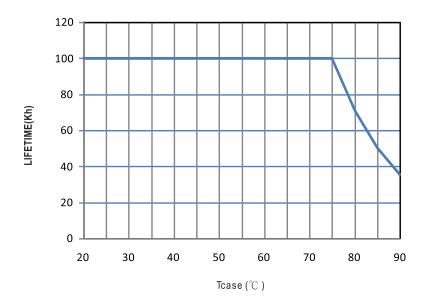
Using a switch and relay can turn $\ensuremath{\mathsf{ON/OFF}}$ the lighting fixture.



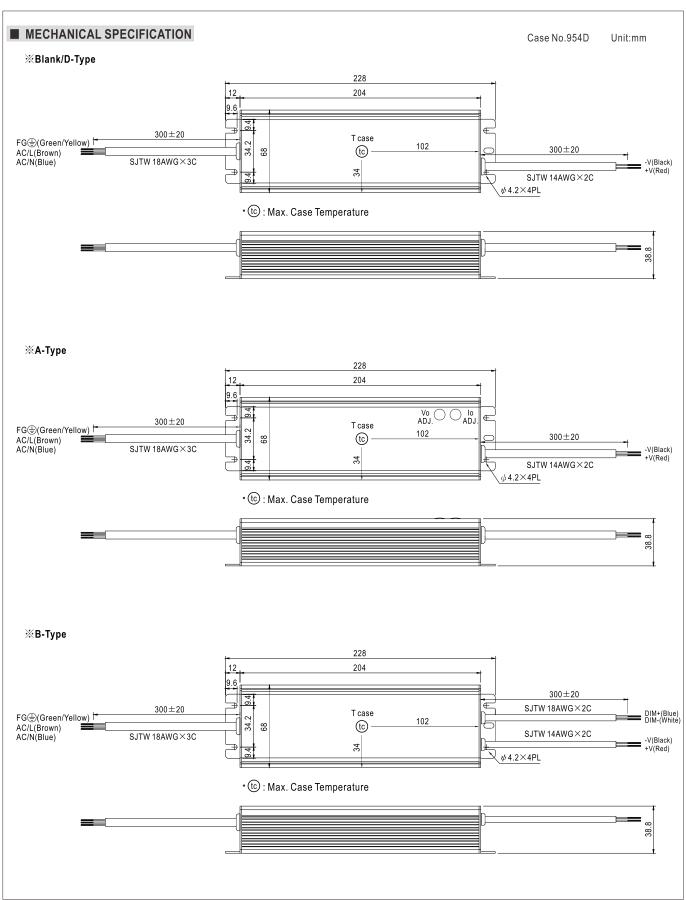




■ LIFETIME







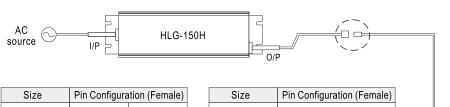
File Name:HLG-150H-SPEC 2016-10-25



■ WATERPROOF CONNECTION

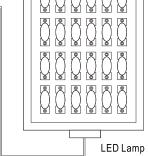
※ Waterproof connector

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

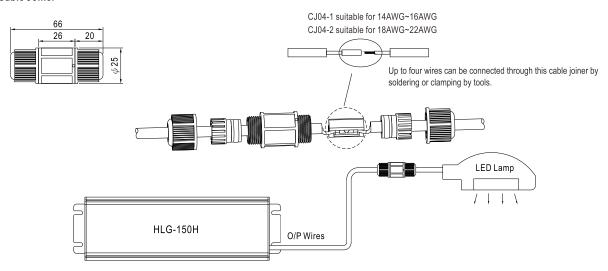


Size	Pin Configuration (Female)				
M12	00	000			
IVITZ	4-PIN	5-PIN			
	5A/PIN	5A/PIN			
Order No.	M12-04	M12-05			
Suitable Current	10A max.	10A max.			

Size	Pin Configuration (Female)		
M15	·		
IVITO	2-PIN		
	12A/PIN		
Order No.	M15-02		
Suitable Current	12A max.		

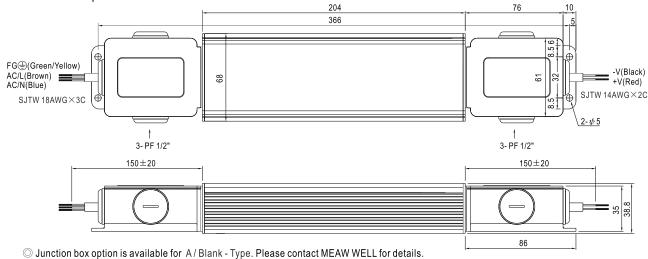


X Cable Joiner



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

※ Junction Box Option



■ INSTALLATION MANUAL

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