













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

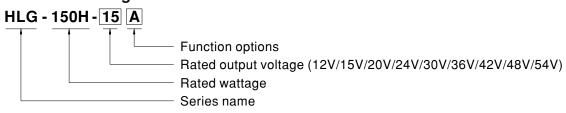
Applications

- 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

File Name: HI G-150H-SPEC 2018-05-29



SPECIFICATION

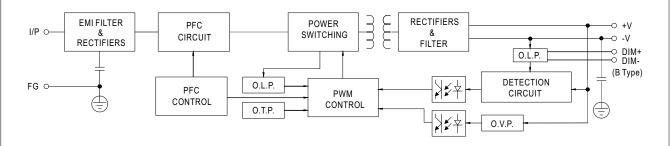
	DC VOLTAGE CONSTANT CURRENT REGION Note.4	12V	45\/								
	CONSTANT CURRENT REGION Note 4		15V	20V	24V	30V	36V	42V	48V	54V	
		6 ~12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V	
	RATED CURRENT	12.5A	10A	7.5A	6.3A	5A	4.2A	3.6A	3.2A	2.8A	
	RATED POWER	150W	150W	150W	151.2W	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	
		Adjustable for A/AB-Type only (via built-in potentiometer)									
OUTPUT	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V	
		Adjustable for		L	1		100 .01	100 101	10 001	110 001	
	CURRENT ADJ. RANGE		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		±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%	
								= 0.070		= 0.070	
	HOLD UP TIME (Typ.)	1000ms,200ms/115VAC 500ms,200ms/230VAC									
INPUT	HOLD OF TIME (Typ.)	16ms / 115VAC, 230VAC									
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)									
	EDECHENOV DANCE										
	FREQUENCY RANGE	47 ~ 63Hz	WO DE > 0.0	F/000\/AO DE	>0.00/077\/A	0.0 6.1111					
	POWER FACTOR (Typ.)	PF≧0.98/115				•					
	TOTAL HARMONIC DISTORTION	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) THD< 20% (@ load≥60% / 115VAC,230VAC; @ load≥75% / 277VAC)									
		, , ,					C)				
	EFFICIENCY (T.)	`		ARMONIC DIS	· · ·		100 50/	0.40/	0.40/	0.40/	
	EFFICIENCY (Typ.)	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%	
	AC CURRENT (Typ.)	1.7A / 115VAC			0.7A / 277VAC						
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=425µs measured at 50% Ipeak) at 230VAC; Per NEMA 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 / 277	'VAC								
	OVER CURRENT	95 ~ 108%									
	OVERCORRENT	Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed									
PROTECTION	OVEDVOLTAGE	14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V	
	OVER VOLTAGE	Shut down o/p	voltage with a	auto-recovery o	or re-power on	to recovery					
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
ENVIRONMENT -	WORKING TEMP.	Tcase= -40 ~ ·	+90°C (Pleas	e refer to "OU"	TPUT LOAD v	s TEMPERATI	JRE" section)				
	MAX. CASE TEMP.	Tcase=+90°C									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY										
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)									
	VIBRATION	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;									
	SAFETY STANDARDS	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									
SAFETY &	WITHSTAND VOLTAGE										
-		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC									
EMC	ISOLATION RESISTANCE	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,									
	EMC EMISSION	•		•	,	_INU IUUU-3-2 (1035 C (@ 1031	u=00%); EN6	1000-3-3,		
	EMC IMMUNITY	GB17743 and GB17625.1, EAC TP TC 020 Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 02									
OTHERS	MTBF	192.2K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	228*68*38.8m									
	PACKING	1.15Kg; 12pcs		UFT							
	All parameters NOT specially	• •			ut, rated curre	nt and 25°C o	f ambient tem	perature.			
NOIE	2. Ripple & noise are measured	•							oacitor.		
	3. Tolerance : includes set up t	olerance, line r	egulation and	load regulation	n.						
	4. Please refer to "DRIVING M	ETHODS OF L	ED MODULE	! ".							
	5. De-rating may be needed ur	nder low input v sured at first co	_								

- 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 complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.
- 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.
- 10. Please refer to the warranty statement on MEAN WELL's website
- 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).



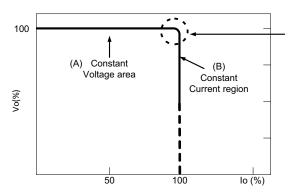
■ BLOCK DIAGRAM

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.



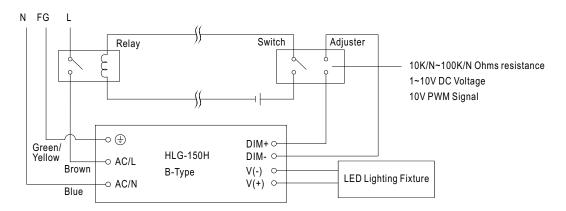
Typical output current normalized by rated current (%)

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 TRC Electronics for details.



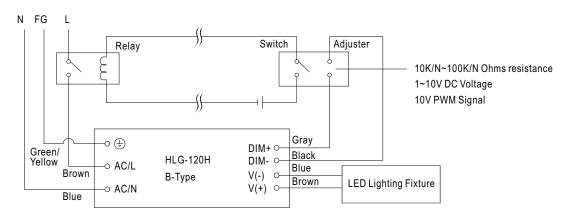
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

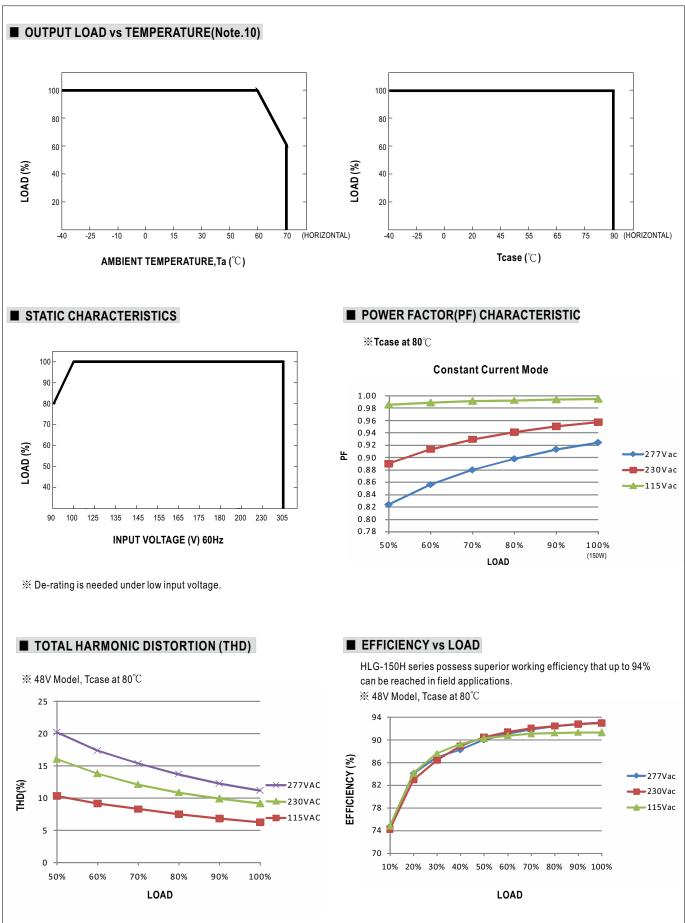


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



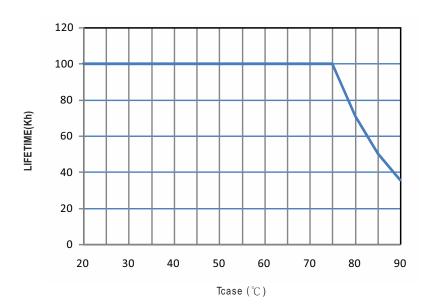
Using a switch and relay can turn $\ensuremath{\mathsf{ON}}/\ensuremath{\mathsf{OFF}}$ the lighting fixture.



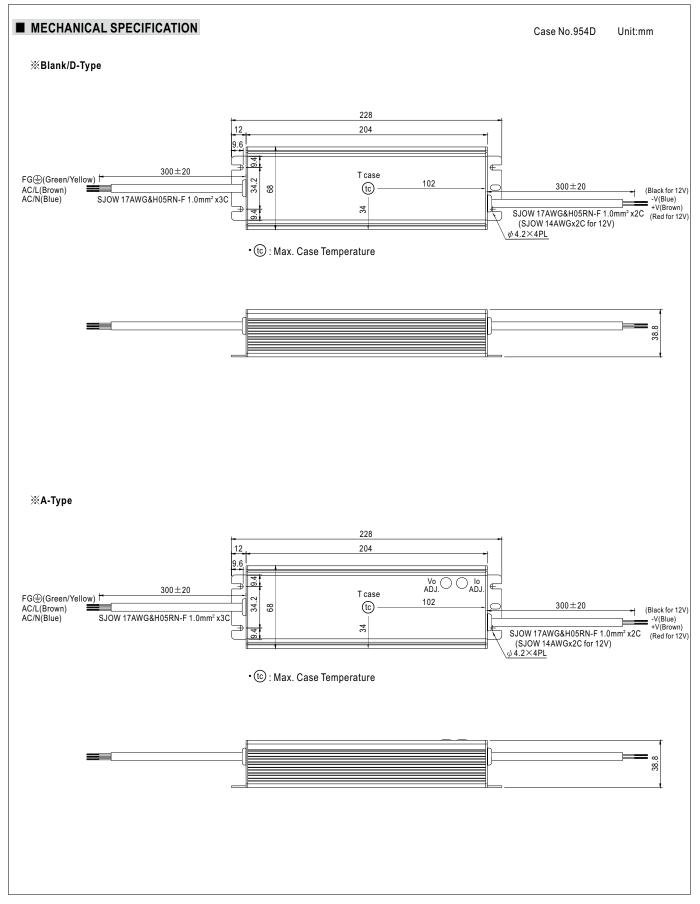




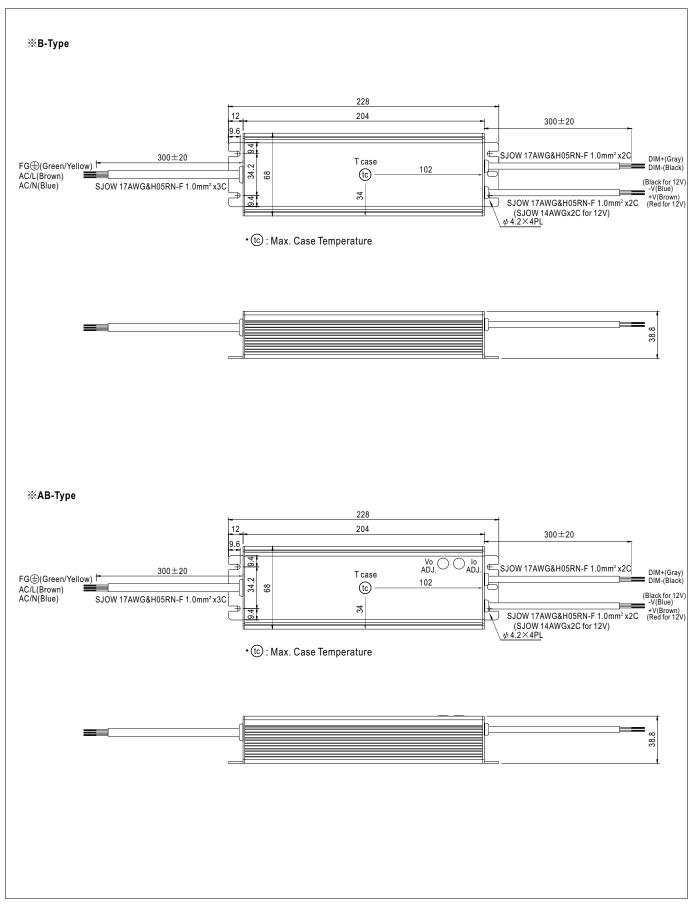










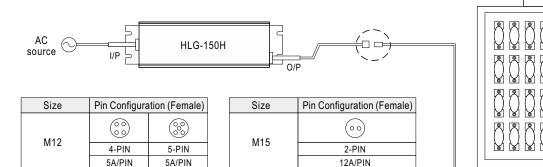




■ WATERPROOF CONNECTION

Waterproof connector

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



Order No.

Suitable Current

X Cable Joiner

Order No.

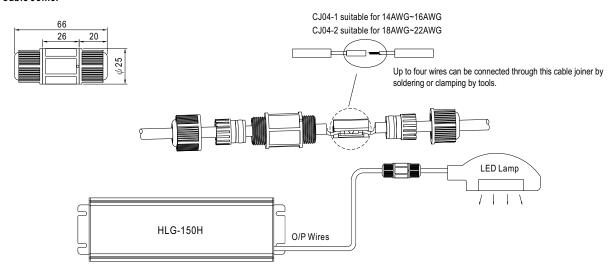
Suitable Current

M12-04

10A max.

M12-05

10A max.

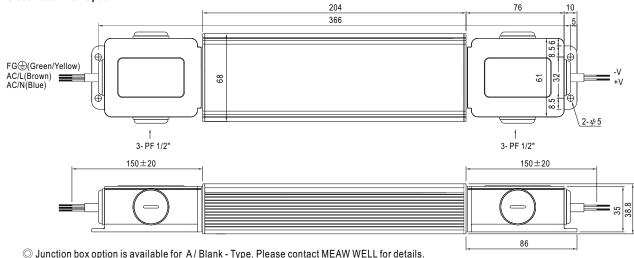


M15-02

12A max.

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

※ Junction Box Option



O Junction box option is available for A/Blank - Type. Please contact MEAW WELL for details.

LED Lamp