











M SELV IP65 IP67 🕝 🛆 🅸 🐠















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
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



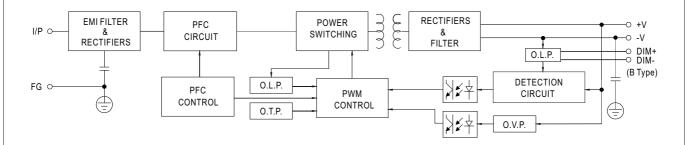
SPECIFICATION

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
	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
	, ,	Adjustable for	· A-Type only (via built-in po	tentiometer)					
	VOLTAGE ADJ. RANGE	10.8 ~ 13.5V		17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V
UTPUT		Adjustable for				1			1.0	11 111
	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%
						⊥0.5%		1 ± 0.5 /6		1 10.5%
		1000ms,200ms/115VAC 500ms,200ms/230VAC								
	HOLD UP TIME (Typ.)	16ms / 115VAC, 230VAC								
	VOLTAGE RANGE Note.5	90 ~ 305VAC (Please refer t	127 ~ 431 o "STATIC CH.		IC" section)					
	FREQUENCY RANGE	(Please refer to "STATIC CHARACTERISTIC" section) 47 ~ 63Hz								
		PF≧0.98/115	VAC. PF≧0.9	5/230VAC. PF	≥0.92/277VA	C @ full load				
	POWER FACTOR (Typ.)			CTOR (PF) CH		•				
		,		. ,		≥75% / 277VA	C)			
NPUT	TOTAL HARMONIC DISTORTION	١ ٠٠		RMONIC DIS	. •		0)			
NFOI	EFFICIENCY (Typ.)	91.5%	92%	93%	1	93.5%	93.5%	94%	94%	94%
	EFFICIENCY (Typ.)				93%		93.5%	94%	94%	94%
	AC CURRENT (Typ.)	1.7A / 115VAC			0.7A / 277VAC		-140			
	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 typ	e B) / 7 units ((circuit breake	r of type C) at 2	30VAC			
	LEAKAGE CURRENT	<0.75mA / 27	7VAC							
	95 ~ 108%									
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	Constant curr	ent limiting, red	covers automa	tically after fa	ult condition is r	emoved			
ROTECTION		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	uto-recovery o	or re-power on	to recovery				
	OVER TEMPERATURE	Shut down o/p voltage with auto-recovery or re-power on to recovery Shut down o/p voltage, recovers automatically after temperature goes down								
	WORKING TEMP.	-				s TEMPERATU				
ENVIRONMENT :	MAX. CASE TEMP.	Tcase= +90°C		e refer to OO	II OI LOAD V	3 ILWII LIVATO	TIL SECTION)			
			non-condensir	na						
	WORKING HUMIDITY			iy						
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 1								
	TEMP. COEFFICIENT	±0.03%/°C (
	VIBRATION	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; 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									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	(VAC I/P-F	G:2KVAC O	/P-FG:1.5KV/	AC .				
MC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms / 50	00VDC / 25°C /	70% RH				
	EMC EMISSION	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								
						limbė implicatori laura	1 /	ulina Fauth 41/1	/ Line Line OK//	EAC TD TO
	EMC IMMUNITY					light industry leve	i (surge immunit	y Line-Earth 4K	, Line-Line ZKV)	EAC IP IC
OTHERS	MTBF	192.2K hrs mi		8K-217F (25°C)					
	DIMENSION	228*68*38.8m								
	PACKING	1.15Kg; 12pcs								
IOTE	All parameters NOT special	•								
	2. Ripple & noise are measure			•		e terminated w	ith a 0.1uf & 4	7uf parallel ca	pacitor.	
	3. Tolerance : includes set up		•	•	on.					
	4. Please refer to "DRIVING N				TATIO OLIAD	ACTEDIOTIC"	notions for t	toila		
	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.									

- 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
- 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 at http://www.meanwell.com

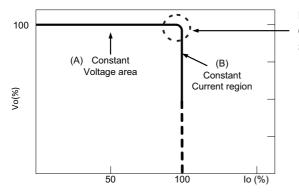
■ BLOCK DIAGRAM

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.

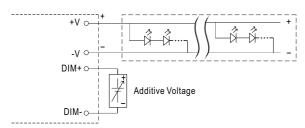


■ DIMMING OPERATION



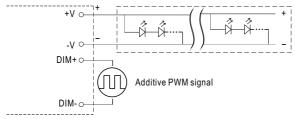
※ 3 in 1 dimming function (for B-Type)

- 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



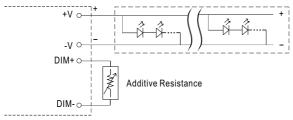
"DO NOT connect "DIM- to -V"

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

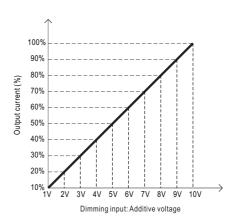


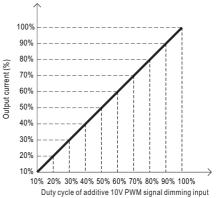
"DO NOT connect "DIM- to -V"

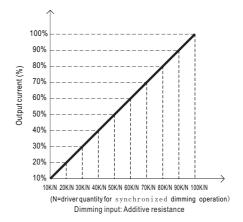
Applying additive resistance:



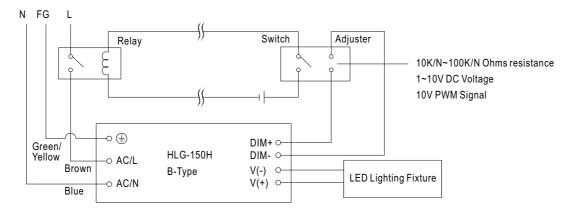
"DO NOT connect "DIM- to -V"





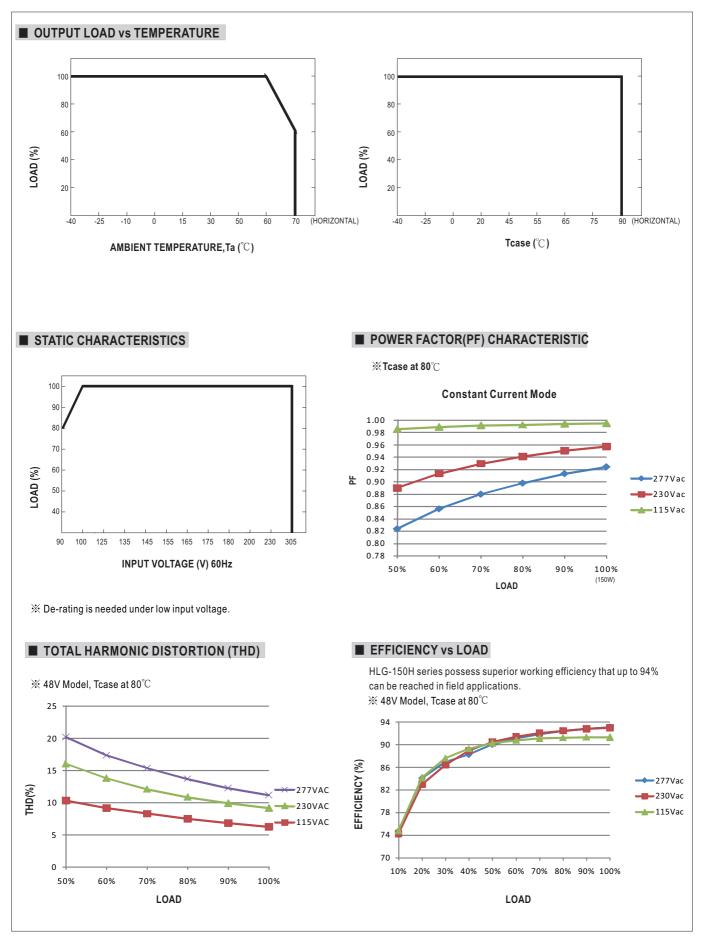


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



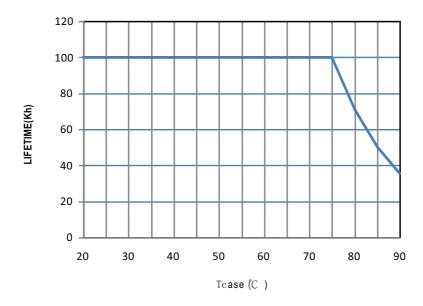
Using a switch and relay can turn ON/OFF the lighting fixture.



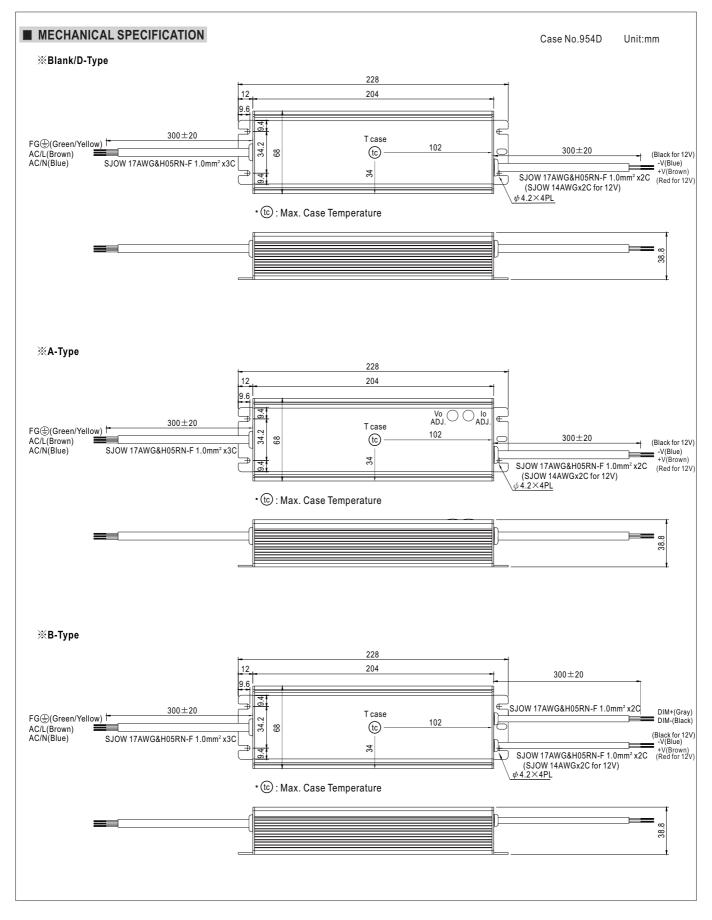




■ LIFE TIME





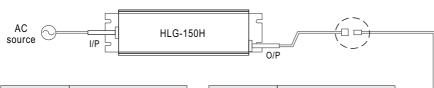




■ WATERPROOF CONNECTION

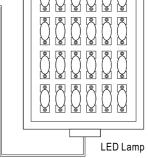
Waterproof connector

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

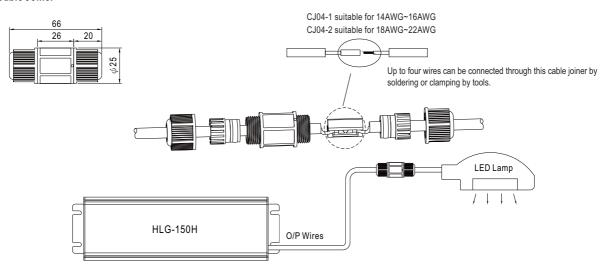


Size	Pin Configuration (Female)		
M12	00	000	
IVITZ	4-PIN	5-PIN	
	5A/PIN	5A/PIN	
Order No.	M12-04	M12-05	
Suitable Current	10A max.	10A max.	

M15 2-PIN 12A/PIN Order No. M15-02	Size	Pin Configuration (Female)		
2-PIN 12A/PIN	M15	00		
12701.00	MITS	2-PIN		
Order No. M15-02		12A/PIN		
	Order No.	M15-02		
Suitable Current 12A max.	Suitable Current	12A max.		

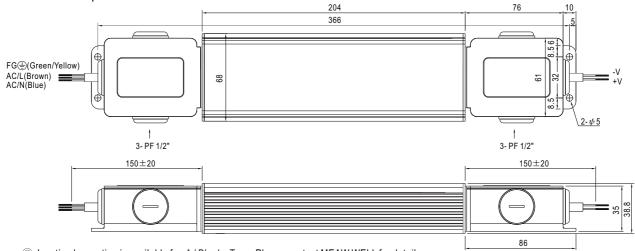


X Cable Joiner



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

※ Junction Box Option



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

■ INSTALLATION MANUAL

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