































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.

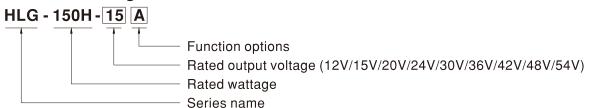
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

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
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



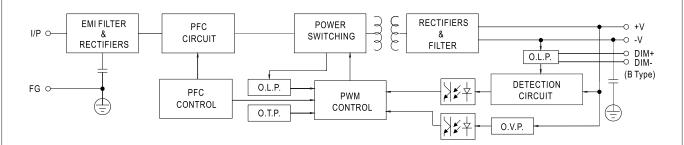
SPECIFICATION

	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	_								54V		
									27 ~ 54V		
									2.8A		
					_			_	151.2W		
								_			
RIPPLE & NOISE (IIIax.) Note.2											
VOLTAGE ADJ. RANGE											
					1	33~40V	30 ~ 40 V	43~330	49 ~ 58V		
CURRENT ADJ. RANGE	_			1	1	25-124	2.16 - 2.64	1 00 2 24	1.68 ~ 2.8		
VOLTACE TOLEDANCE Note A											
									±1.0%		
									±0.5%		
					±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
			500ms,200ms	s/230VAC							
HOLD UP TIME (Typ.)											
VOLTAGE RANGE Note.5											
VOLINOE NOIC.S	(Please refer to "STATIC CHARACTERISTIC" section)										
FREQUENCY RANGE	47 ~ 63Hz										
POWER FACTOR (Typ.)	PF≧0.98/115	VAC, PF≧0.9)5/230VAC, PF	`≥0.92/277VA	C @ full load						
	,		. ,								
TOTAL HARMONIC DISTORTION	THD< 20% (@	@ load≧60%	/ 115VAC,230	VAC; @ load	≧75% / 277VA	C)					
TOTAL HARMONIO BIOTORTION	(Please refer	to "TOTAL HA	ARMONIC DIS	STORTION (TH	ID)" section)						
EFFICIENCY (Typ.)	91.5%	92%	93%	93%	93.5%	93.5%	94%	94%	94%		
AC CURRENT (Typ.)	1.7A / 115VA	0.75A/	230VAC	0.7A / 277VAC							
INRUSH CURRENT (Typ.)	COLD START 65A(twidth=425µ:s 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/277VAC										
OVED OUDDENT	95 ~ 108%										
OVER CURRENT											
SHORT CIRCUIT											
	14 ~ 17V	18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V		
OVER VOLTAGE	Shut down o/r	voltage with a	auto-recovery	or re-power on	to recovery		1				
OVER TEMPERATURE											
			01010110 00	TI OI LOAD V	3 ILWII LIVATO	JIL SCOTION)					
	· · · · · · · · · · · · · · · · · · ·										
,											
	,,,,,,			70							
VIBRATION	10 ~ 500Hz, 5	G 12min./1cyc	cle, period for	72min. each al	ong X, Y, Z axe	S					
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; J61347-1, J61347-2-13(except for AB and D-type), BIS IS15885(for 12B,24B,36A,54A only), EAC TP TC 004; KC61347-1,KC61347-2-13(except for D-type) approved										
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC										
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH										
EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class C (@ load ≥ 60%); BS EN/EN61000-3-3, GB17743 and GB17625.1, EAC TP TC 020, KSC 9815(except for D-type)										
	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, KSC 9547(except for D-type)										
EMC IMMUNITY	Line-Earth 4K	v, Lille-Lille Zi	KV), LAO 11 1	2176.1K hrs min. Telcordia SR-332(Bellcore); 166.4K hrs min. MIL-HDBK-217F (25°C)							
						MIL-HDBK-	217F (25°C)				
EMC IMMUNITY MTBF DIMENSION		min. Telcord				MIL-HDBK-	217F (25°C)				
	RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR (Typ.) TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) INRUSH CURRENT (Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	RATED CURRENT RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE CURRENT (TOLERANCE Note.3) LINE REGULATION LOAD REGULATION ET J. 5% LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.5 Note.5 FREQUENCY RANGE Note.5 FREQUENCY RANGE PF≧ 0.98/115 (Please refer of the properties of the pr	DC VOLTAGE	DC VOLTAGE 12V	DC VOLTAGE 12V	DC VOLTAGE 12V 15V 20V 24V 30V 24V 30V 20NT CURRENT REGION Note.4 6 - 12V 7.5 - 15V 10 - 20V 12 - 24V 15 - 30V 30	DC VOLTAGE	DC VOLTAGE 12V	DC VOLTAGE 12V		

- 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.
- 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 (€) point (or TMP, per DLC), is about 80 ℃ or less.
- 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.
- 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).
- 12. 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
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:HLG-150H-SPEC 2023-04-17

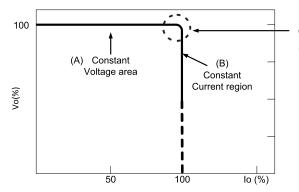
■ BLOCK DIAGRAM

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.

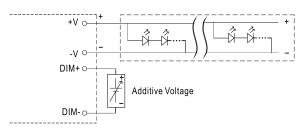


■ DIMMING OPERATION



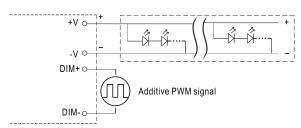
※ 3 in 1 dimming function (for B/AB-Type)

- 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



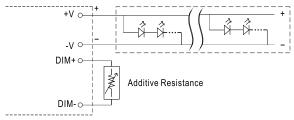
"DO NOT connect "DIM- to -V"

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

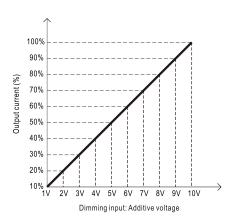


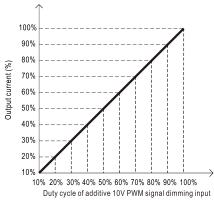
"DO NOT connect "DIM- to -V"

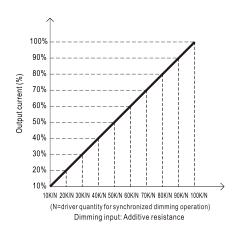
Applying additive resistance:



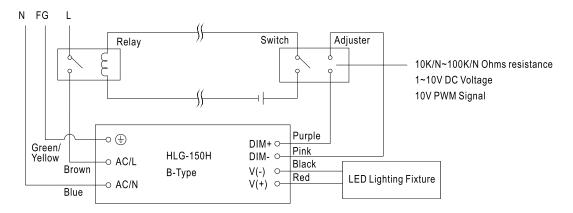
"DO NOT connect "DIM- to -V"





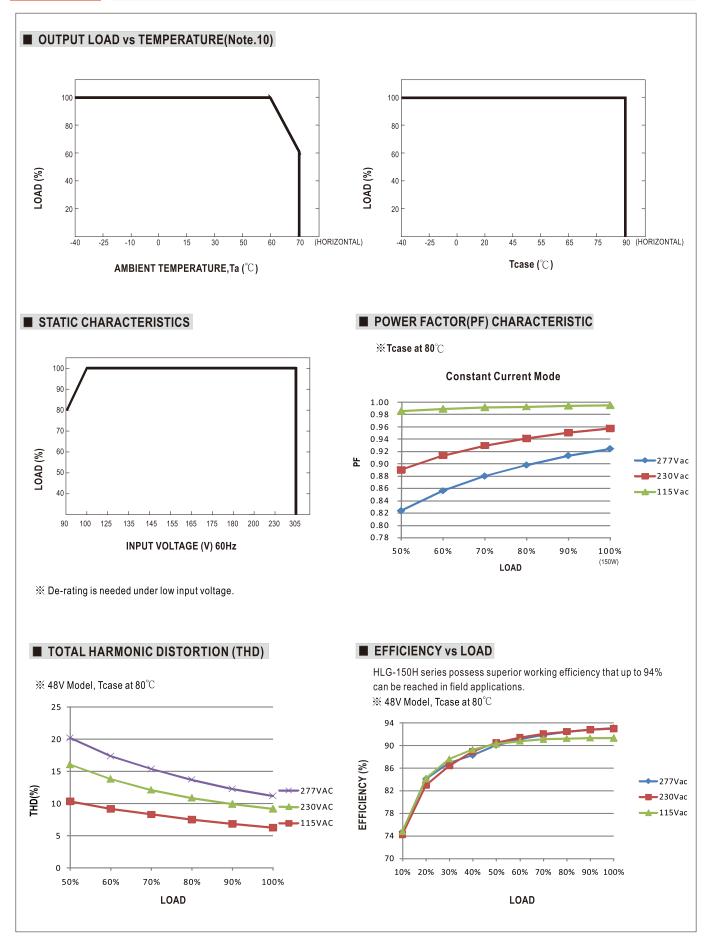


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



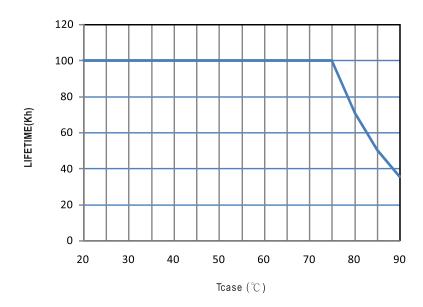
Using a switch and relay can turn ON/OFF the lighting fixture.



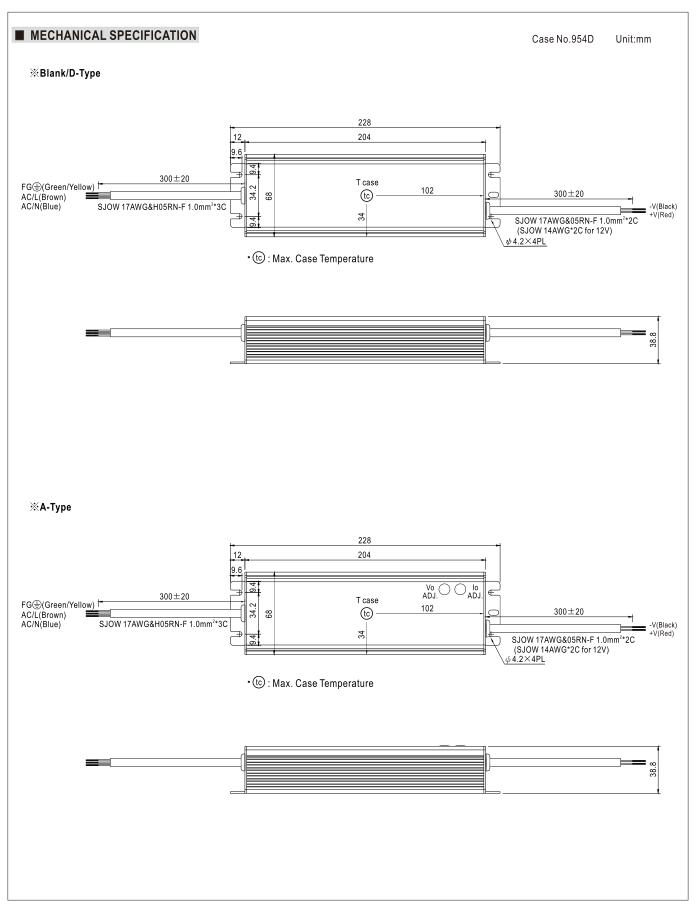




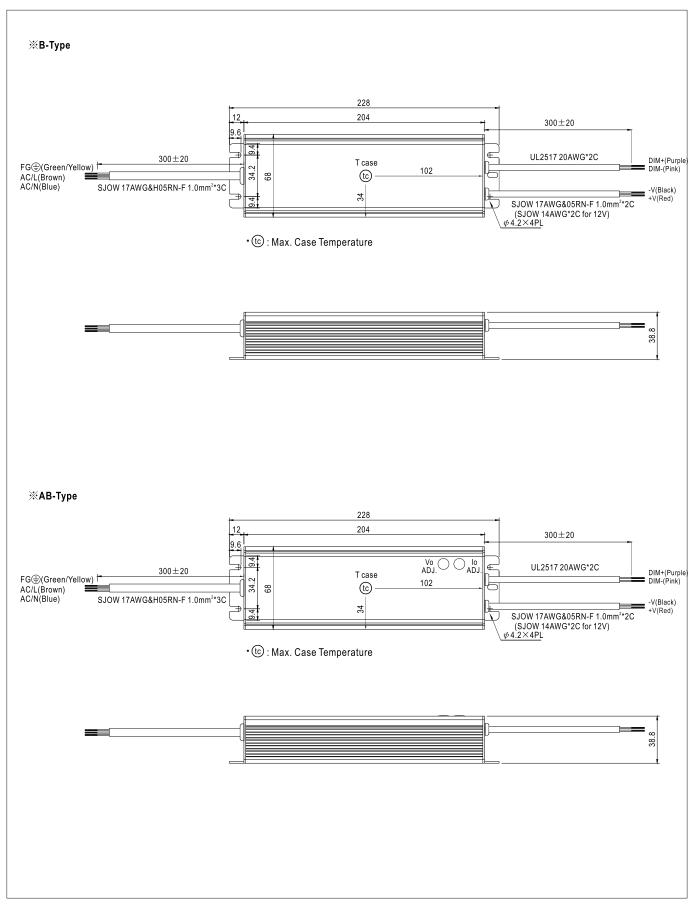
■ LIFE TIME









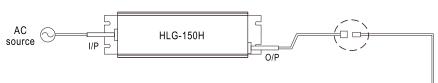




■ WATERPROOF CONNECTION

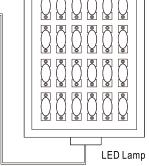
※ Waterproof connector

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

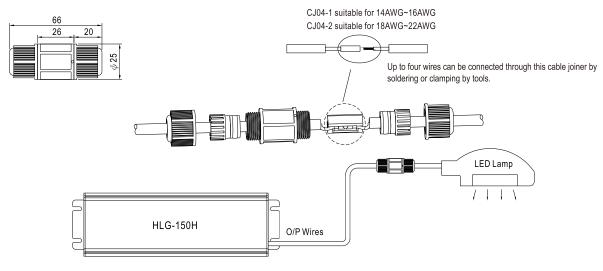


Size	Pin Configuration (Female)				
M12	000	000			
IVITZ	4-PIN	5-PIN			
	5A/PIN	5A/PIN			
Order No.	M12-04	M12-05			
Suitable Current	10A max.	10A max.			

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



X Cable Joiner



 \bigcirc 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