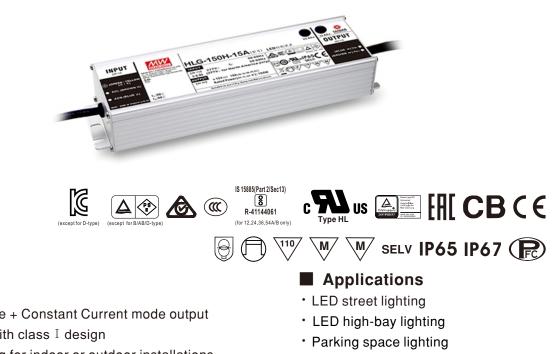


HLG-150H series



- LED fishing lamp
- LED greenhouse lighting
- Type "HL" for use in Class I , Division 2 hazardous (Classified) location.

Features

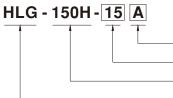
AIWAN

- Constant Voltage + Constant Current mode output
- Metal housing with class ${\rm I}$ design
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours

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° C \sim +90°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



Function options Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V) Rated wattage Series name

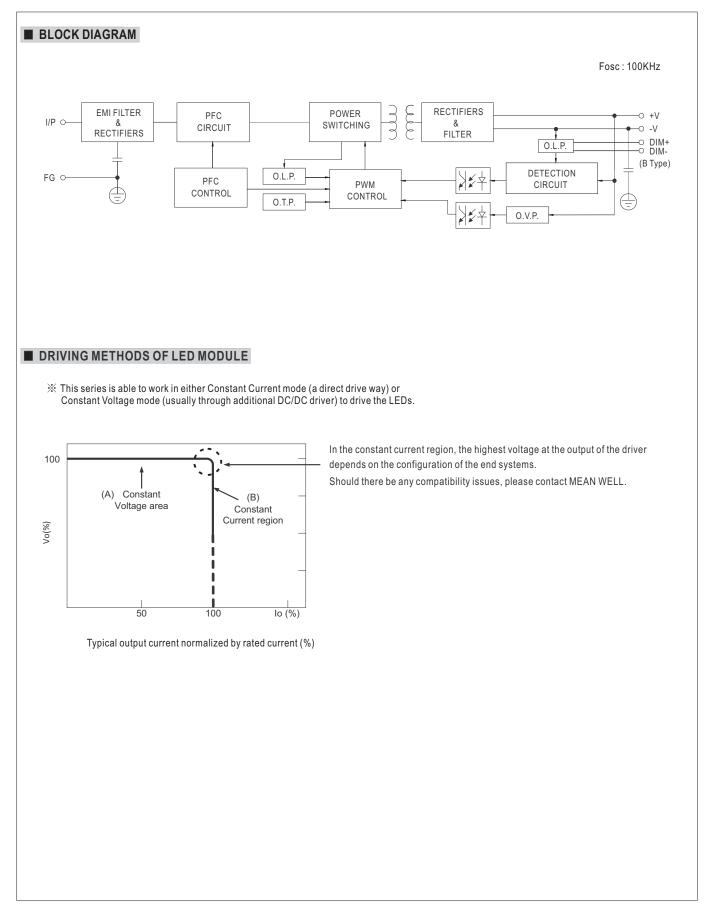
Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request



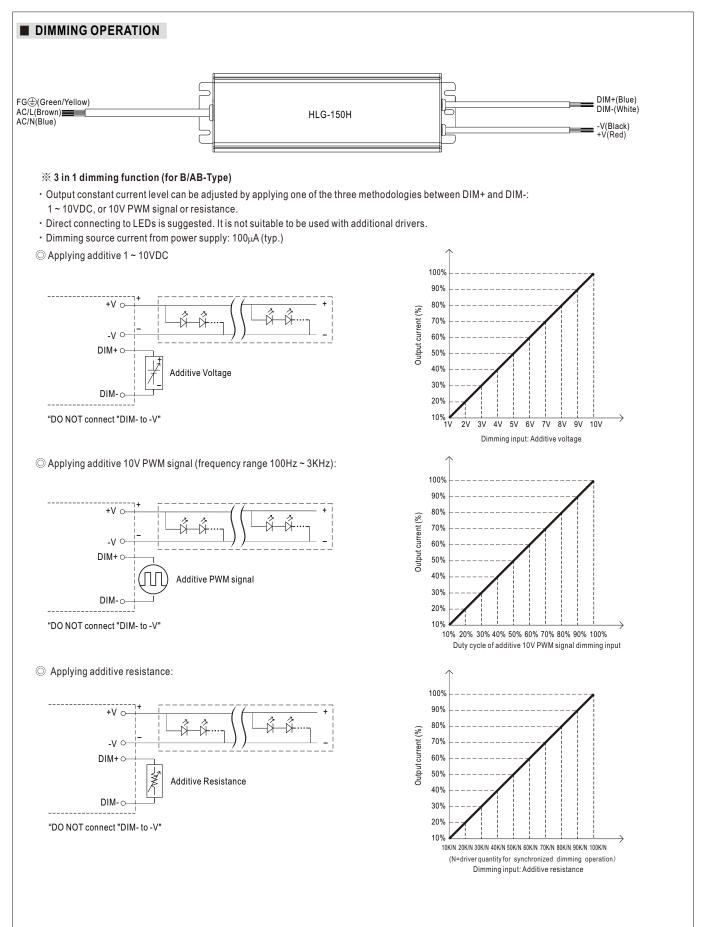
SPECIFICATION

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	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p		
		Adjustable fo	r A/AB-Type o	nly (via built-ir	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		
		Adjustable fo	r A/AB-Type o	nly (via built-ir	n potentiomete	er)						
	CURRENT 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											
	HOLD UP TIME (Typ.)											
		90 ~ 305VAC 127 ~ 431VDC										
	VOLTAGE RANGE Note.5											
	FREQUENCY RANGE	47 ~ 63Hz										
	TREQUENTIANUE											
	POWER FACTOR (Typ.)	PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)										
		`		/ 115VAC,230		,	(C)					
INPUT	TOTAL HARMONIC DISTORTION			ARMONIC DIS			,					
INF UT	EFFICIENCY (Typ.)	91.5%	92%	93%		93.5%	03 50/	94%	94%	94%		
	AC CURRENT (Typ.)	91.5% 1.7A / 115VA			93% 0.7A / 277VAC	93.3%	93.5%	34 /0	34 /0	34%		
	INRUSH CURRENT (Typ.)	GOLD START	00A((wiath=425	jus measured a	t JU /o Ipeak) at	200VAC, Per N						
	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										
	OVER CURRENT	95~108%										
				covers automa								
PROTECTION	SHORT CIRCUIT		÷	covers automa	-			47 5014	54 0014	50 0514		
	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	Shut down o/p voltage, recovers automatically after temperature goes down										
	WORKING TEMP.			e refer to "OU"	TPUT LOAD v	s TEMPERATI	JRE" section)					
	MAX. CASE TEMP.	Tcase= +90°℃										
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing										
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.03%/°C(0∼60°C)									
	VIBRATION	10 ~ 500Hz, 5	G 12min./1cyc	le, period for	72min. each al	ong X, Y, Z axe	S					
	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(except for B,AB and D-type),BIS IS15885(for 12,24,36,54A/B only), EAC TP TC 004; KC61347-1,KC61347-2-13(except for D-type) approved										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	.C						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms / 50	0VDC/25°C/	70% RH						
	EMC EMISSION					N61000-3-2 C	Class C (@ load	d≧60%);EN6	51000-3-3,			
	EMC IMMUNITY		3B17743 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									
	MTBF	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 192.2K hrs min. MIL-HDBK-217F (25℃)										
OTHERS	DIMENSION	228*68*38.8r		11-2111 (20 C	1							
				IFT								
	PACKING 1 All parameters NOT special		s/14.8Kg/0.8Cl		it rated ourro	nt and 25°C	f ambient tom	oerature				
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Please refer to "DRIVING METHODS OF LED MODULE". De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. 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. 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. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 80°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com. 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(6500f 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 											





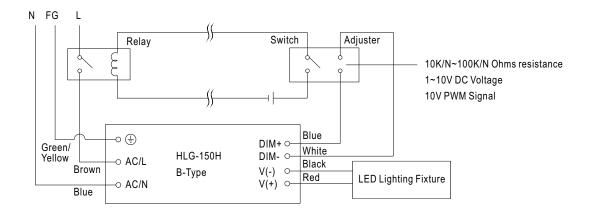






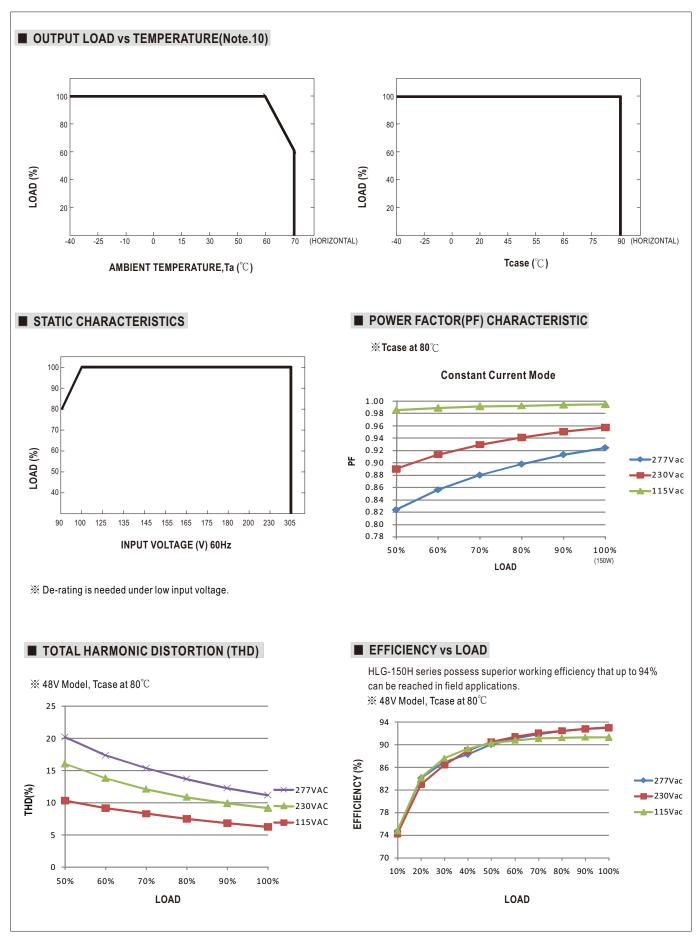
HLG-150H series

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 ON/OFF the lighting fixture.

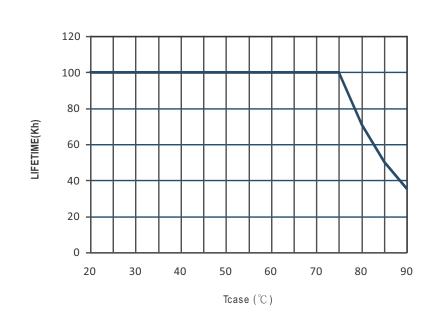




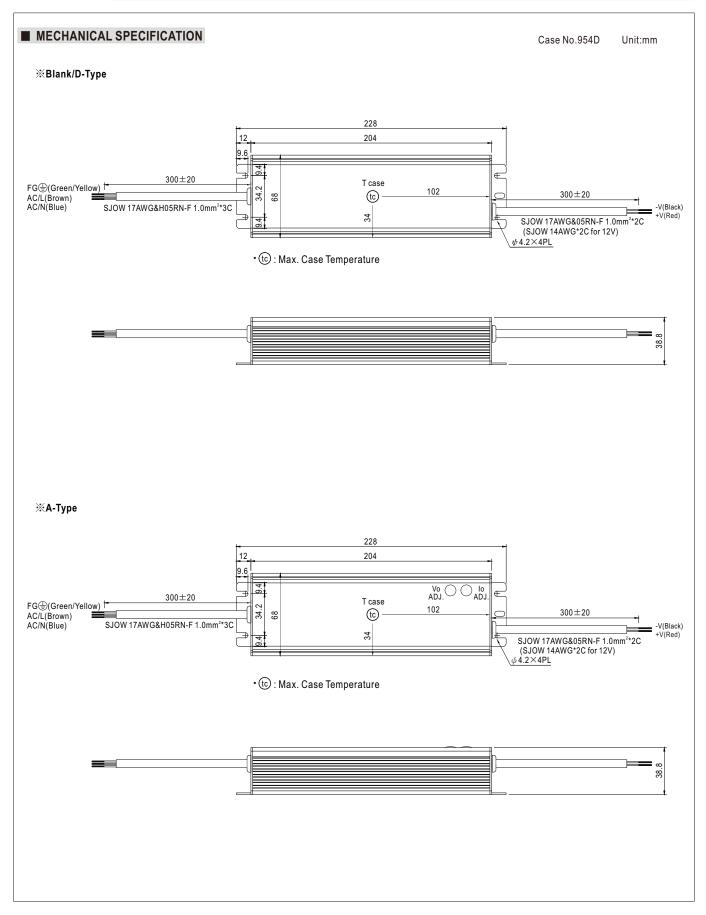


HLG-150H series

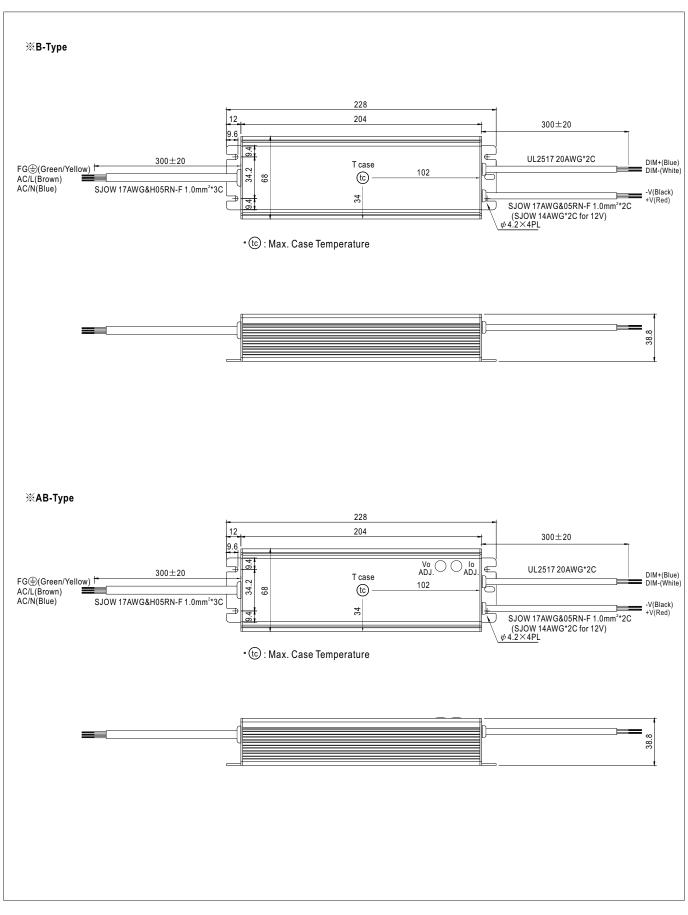
LIFE TIME













HLG-150H series

WATERPROOF CONNECTION

$\% \ {\rm Waterproof} \ {\rm connector}$

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

