









· LED street lighting

LED fishing lamp

GTIN CODE

LED high-bay lighting

Parking space lighting

LED greenhouse lighting

Type "HL" for use in Class I , Division 2

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

hazardous (Classified) location.

Features

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- · Built-in active PFC function
- Class 2 power unit
- · IP67 / IP65 rating for indoor or outdoor installations
- · Function options: output adjustable via potentiometer; 3 in 1 dimming; Timer dimming
- Typical lifetime > 62000 hours
- 7 years warranty

Description

HLG-80H series is a 80W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-80H operates from 90 ~ 305VAC and offers models with different rated voltage rangingbetween 12V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40 $^{\circ}$ C ~ +80 $^{\circ}$ 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-80H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding HLG - 80H - 15 A 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	lo 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 adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
BL	IP66	B-Type with junction box. UL8750 LISTED. Contact MEAN WELL for details	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

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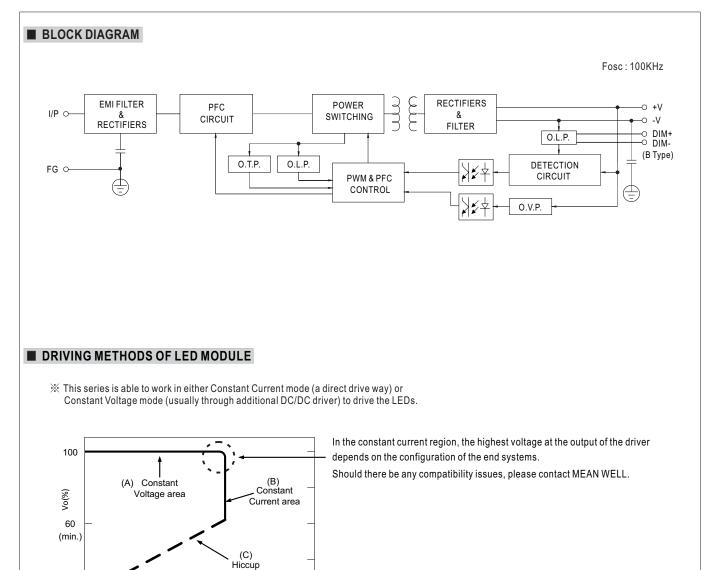


SPECIFICATION

MODEL		HLG-80H-12	HLG-80H-15	HLG-80H-20	HLG-80H-24	HLG-80H-30	HLG-80H-36	HLG-80H-42	HLG-80H-48	HLG-80H-54		
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V		
OUTPUT	CONSTANT CURRENT REGION Note.4		9~15V	12~20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8~48V	32.4 ~ 54V		
	RATED CURRENT	5A	5A	4A	3.4A	2.7A	2.3A	1.95A	1.7A	1.5A		
	RATED POWER	60W	75W	80W	81.6W	81W	82.8W	81.9W	81.6W	81W		
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p		
						2001110 0	20011179.9	Loompp	2001110 0	20011100		
	VOLTAGE ADJ. RANGE	Adjustable for A-Type only (via built-in potentiometer) 10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 22 ~ 27V 27 ~ 33V 33 ~ 40V 38 ~ 46V 43 ~ 53V 49 ~ 58V										
	CURRENT ADJ. RANGE	Adjustable fo	r A/AB-Type o	nly (via built-i	n potentiomet	er)						
	CURRENT ADJ. RANGE	3~5A	3 ~ 5A	2.4 ~ 4A	2.04 ~ 3.4A	1.62 ~ 2.7A	1.38 ~ 2.3A	1.17 ~ 1.95A	1.02~1.7A	0.9~1.5A		
	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	1200ms,200r	ns/115VAC 5	00ms.200ms/	230VAC							
	HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC										
	90 ~ 305VAC 127 ~ 431VDC											
-	VOLTAGE RANGE Note.5											
	FREQUENCY RANGE	EQUENCY RANGE 47 ~ 63Hz										
	POWER FACTOR (Typ.)			6/230VAC, PF		0						
		$\begin{tabular}{lllllllllllllllllllllllllllllllllll$										
INPUT	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)										
-	EFFICIENCY (Typ.)	88%	89%	90%	90.5%	91%	91%	91%	91%	91%		
	AC CURRENT (Typ.)	0.85A / 115V/		A / 230VAC	0.4A/277V/							
	INRUSH CURRENT (Typ.)					-	FMA 410					
	MAX. No. of PSUs on 16A	on 16A 3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC										
	CIRCUIT BREAKER Summa (uncar breaker of type B) / Summa (uncar break											
	OVER CURRENT	95 ~ 108%										
		Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed										
PROTECTION	SHORT CIRCUIT		1	-	1	1		40 5014		50 001		
	OVER VOLTAGE	14 ~ 17V	18~24V	23~30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 63V	59~68V		
	Shut down o/p voltage, re-power on to recover											
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover										
	WORKING TEMP.	WORKING TEMP. Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)										
ENVIRONMENT	MAX. CASE TEMP.	Tcase=+80°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, UL8750 LISTED for HLG-80H-□BL;BS EN/EN/AS/NZS 61347-1,BS EN/EN/AS/NZS 61347-2-										
	SAFETY STANDARDS Note.8											
		IP65 or IP67,KC61347-1,KC61347-2-13(except for AB,BL-type) approved										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	P-FG:1.5KVA	AC .						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	-G, O/P-FG:10	00M Ohms / 50	DOVDC/25°C/	70% RH						
	EMC EMISSION Note.8	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load≧60%); BS EN/EN61000-3-3,GB/T 17743 , GB17625.1										
		KS C 9815, KS C 9547 (except for BL type), EAC TP TC 020 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity Line-Earth 4KV,										
			· · · · · · · · · · · · · · · · · · ·			be), EAC TP TC						
OTHERS	MTBF	2992.9K hrs r		lia SR-332 (Be	llcore) ; 289.1k	Chrsmin. M	IL-HDBK-217F	(25°C)				
	DIMENSION		8.8mm (L*W*H	,								
	PACKING	÷ .	s/14.4Kg/0.540									
NOTE	1. All parameters NOT special											
NOTE	2. Ripple & noise are measure			•		e terminated w	ith a 0.1uf & 4	7uf parallel cap	pacitor.			
	3. Tolerance : includes set up t		•	•	n.							
	 Please refer to "DRIVING M De-rating may be needed up 					CTEDIOTIC" -	actions for dat	aile				
	6. Length of set up time is mea	-	-									
	7. The driver is considered as			•					be affected by	/ the		
	complete installation, the fina											
	(as available on https://www.	meanwell.com	//Upload/PDF/	EMI_statemer	nt_en.pdf)			-				
	8. To fulfill requirements of the					can only be us	ed behind a s	witch without p	ermanently			
	connected to the mains.						~					
	9. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75 °C 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 13. For A/AB type need to consider build in using to comply with Type HL application.											
	13 For A/AP type pood to som	eidar build in H	leing to comply		annligation							
	13. For A/AB type need to con X Product Liability Disclaimer					opwell ac	n ioo Diaal-i	r 000)/				

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Typical output current normalized by rated current (%)

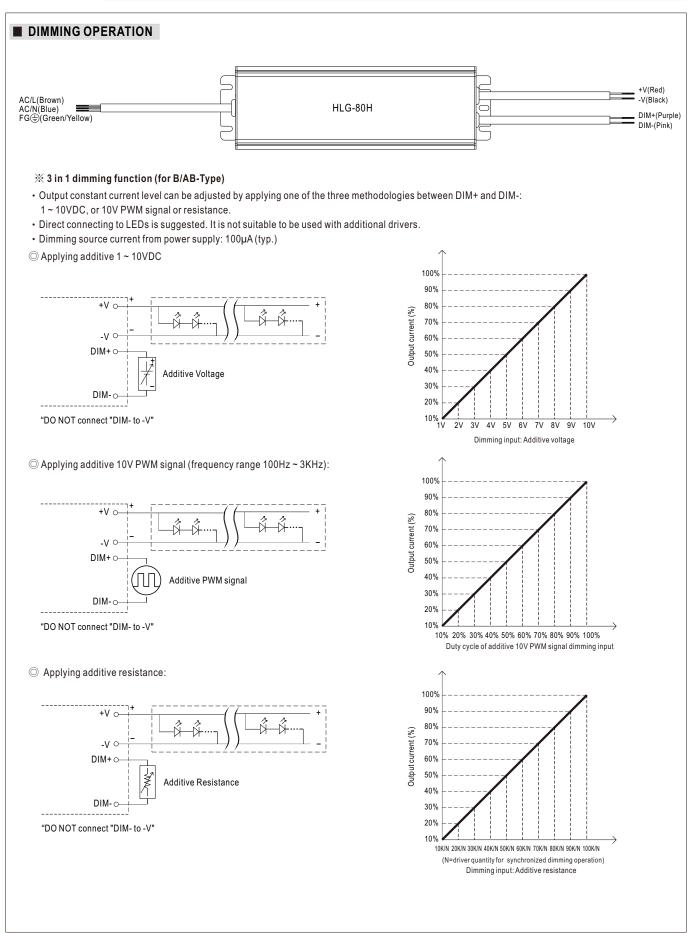
50

Protection

100

lo (%)

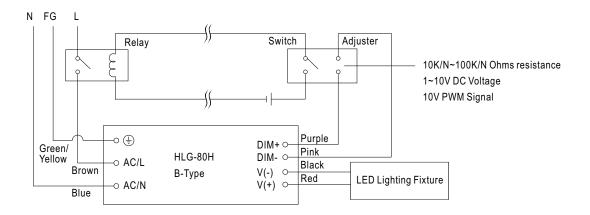






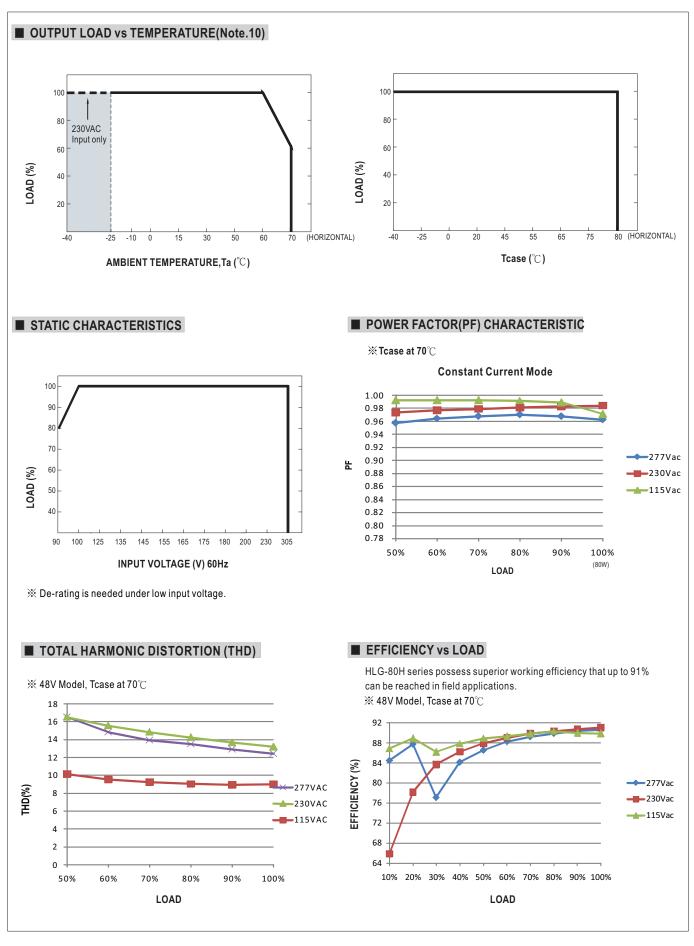
HLG-80H series

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.

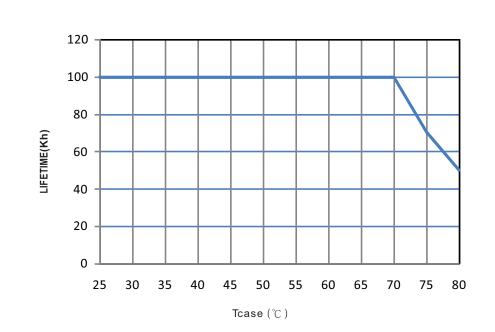




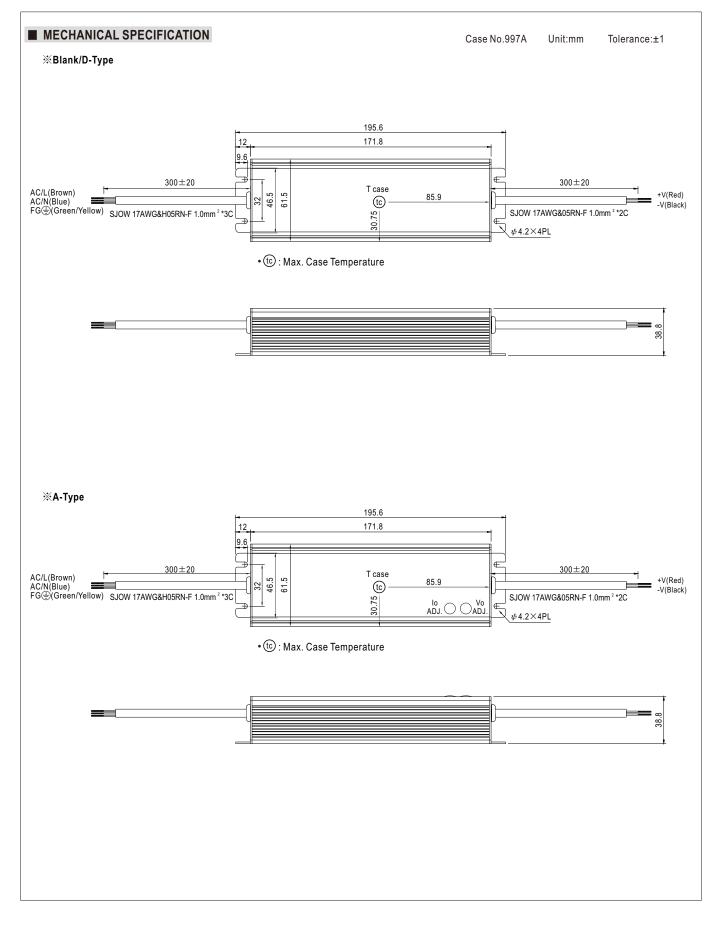


HLG-80H series

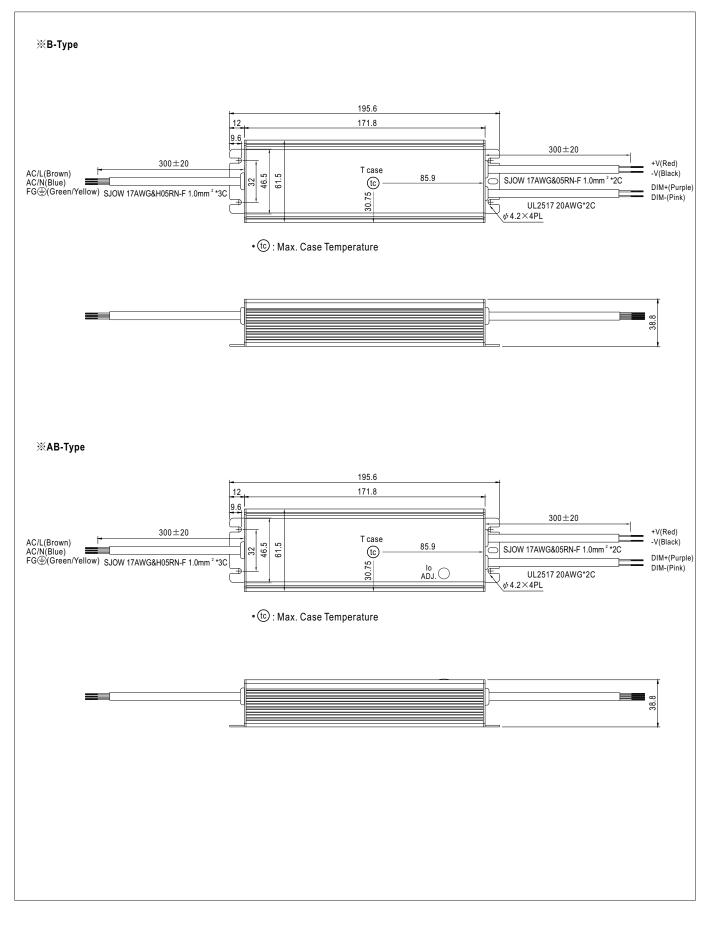
LIFE TIME













WATERPROOF CONNECTION

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

Waterproof connector can be assembled on the output cable of HLG-80H to operate in dry/wet/damp or outdoor environment.

