































SELV IP65 IP67



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

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.

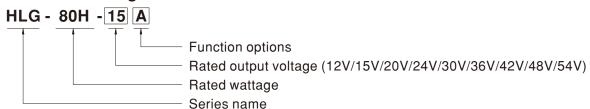
GTIN CODE

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

Description

HLG-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°C ~ +80°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



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 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



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
	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		-							_
	RIFFLE & NOISE (IIIax.) Note.2									
	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								
			r A/AB-Type o			1	33 ~ 40 0	30 ~ 40 0	45~550	49 ~ 30 V
	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	-	±2.0%	±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%
				±1.0%						
	LOAD REGULATION	±2.0%	±1.5%		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
		1200ms,200n		-	230VAC					
	HOLD UP TIME (Typ.)		ad 230VAC							
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431							
		(Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz								
INPUT	POWER FACTOR (Typ.)	PF≧0.96/115	PF≥0.96/115VAC, PF≥0.96/230VAC, PF≥0.94/277VAC @ full load							
		· ·	to "POWER FA	, ,		,				
	TOTAL HARMONIC DISTORTION	THD< 20% (@	@ load≥60% .	/ 115VAC,230	VAC; @ load	≥75% / 277VA	C)			
	TOTAL HARMONIO DIOTORTION	(Please refer	to "TOTAL HA	ARMONIC DIS	TORTION (TH	ID)" section)				
	EFFICIENCY (Typ.)	88%	89%	90%	90.5%	91%	91%	91%	91%	91%
	AC CURRENT (Typ.)	0.85A / 115VA	AC 0.425	A / 230VAC	0.4A / 277VA	AC .				
	INRUSH CURRENT (Typ.)	COLD START	70A(twidth=485	us measured a	t 50% Ipeak) at 2	230VAC; Per NE	EMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA/277VAC								
	LLANAGE CONNENT		IVAC							
	OVER CURRENT	95 ~ 108%								
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION	SHORT CIRCUIT	14 ~ 17V	18 ~ 24V	23 ~ 30V	28 ~ 35V	1	41 - 40\/	48 ~ 58V	E4 - 62\/	59 ~ 68V
	OVER VOLTAGE					35 ~ 43V	41 ~ 49V	40 ~ 30 V	54 ~ 63V	39 ~ 66V
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover								
	OVER TEMPERATURE	-				TEMBERATI	IDEII (;)			
	WORKING TEMP.			e refer to "OU	IPUI LOAD V	s TEMPERATU	IRE" section)			
	MAX. CASE TEMP.	Tcase= +80°C								
ENVIRONMENT	WORKING HUMIDITY		non-condensir	ng						
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,								
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)								
	VIBRATION	10 ~ 500Hz, 5	G 12min./1cyc	cle, period for	72min. each al	ong X, Y, Z axes	8			
	SAFETY STANDARDS Note.8	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 61347-2-13								
		J61347-1, J61347-2-13(except for BL-type), GB19510.1, independent, GB19510.14, EAC TP TC 004, BIS IS15885 (for 36A, 54A only),								
		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	ıC .				
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms / 50	0VDC / 25°C/	70% RH				
		//P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load ≥ 60%); BS EN/EN61000-3-3,GB/T 17743, GE							GB17625.	
	EMC EMISSION Note.8	KS C 9815, KS C 9547 (except for BL type), EAC TP TC 020								
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity Line-Earth 4KV,								
	EINIC IIVIIVIUNI I T	Line-Line 2KV), KS C 9815, KS C 9547 (except for BL type), EAC TP TC 020								
	MTBF	2992.9K hrs n	nin. Telcord	ia SR-332 (Bel	lcore); 289.1K	hrs min. MI	L-HDBK-217F	(25°C)		
OTHERS	MTBF DIMENSION		nin. Telcord 8.8mm (L*W*H		lcore) ; 289.1K	hrs min. MI	L-HDBK-217F	(25°℃)		
OTHERS		195.6*61.5*38)	lcore) ; 289.1K	Ars min. MI	L-HDBK-217F	(25°C)		

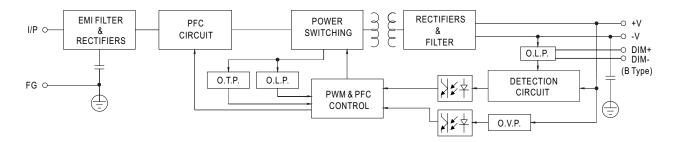
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. De-rating may be needed 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.

 (as available on https://www.meanwell.com//Upload/PDF/EMI statement en.pdf)
- 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 (c) 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.
- 14. Products sourced from the Americas regions may only have the UL, CE and UKCA logos. Please contact your MEAN WELL sales for more information.
- ** Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:HLG-80H-SPEC 2025-04-10



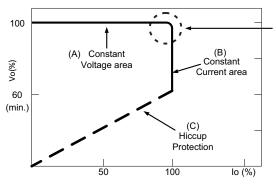
■ BLOCK DIAGRAM

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.



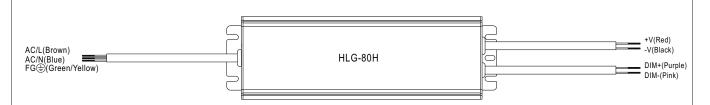
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

Typical output current normalized by rated current (%)

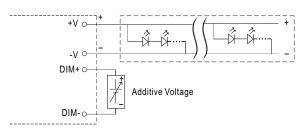


■ DIMMING OPERATION



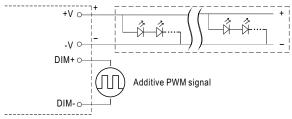
imes 3 in 1 dimming function (for B/AB-Type)

- 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: 100µA (typ.)
- O Applying additive 1 ~ 10VDC



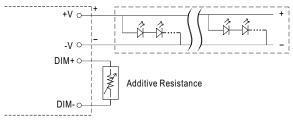
"DO NOT connect "DIM- to -V"

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

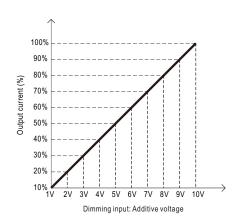


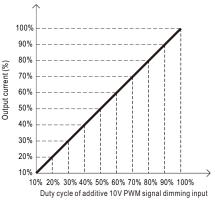
"DO NOT connect "DIM- to -V"

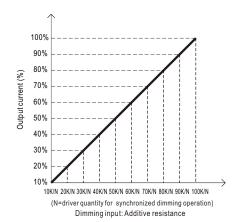
Applying additive resistance:



"DO NOT connect "DIM- to -V"

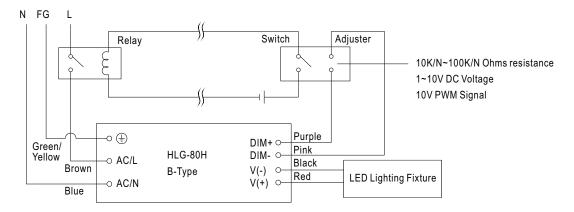






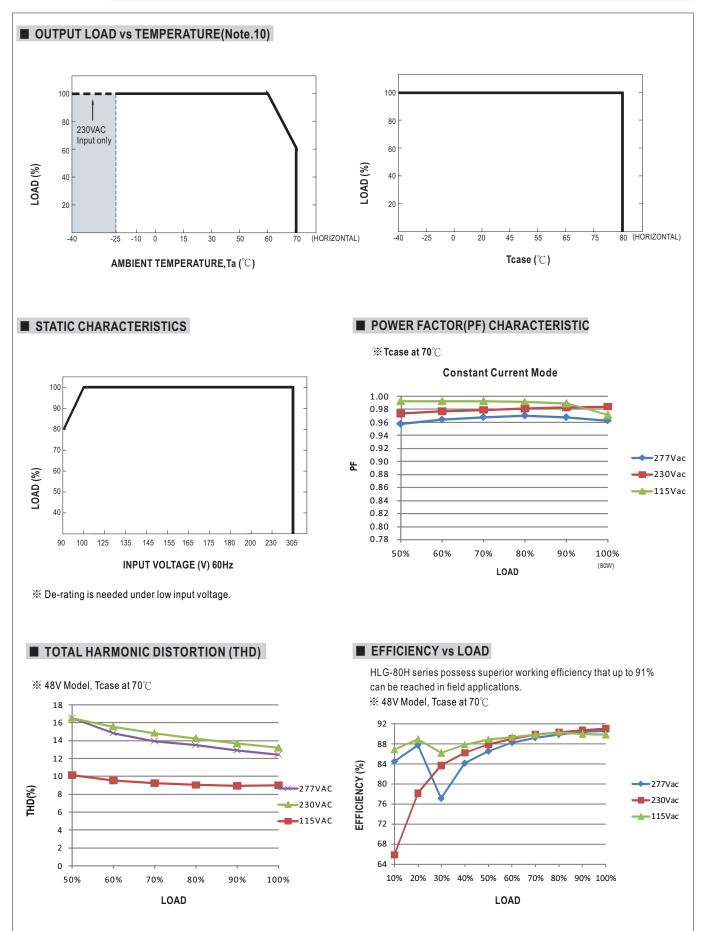


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



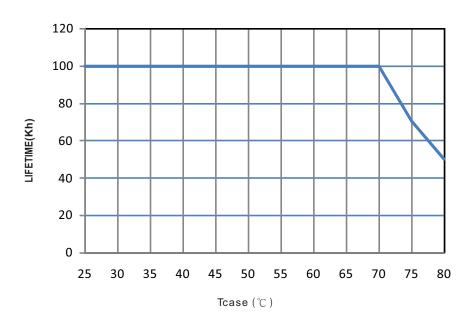
Using a switch and relay can turn ON/OFF the lighting fixture.



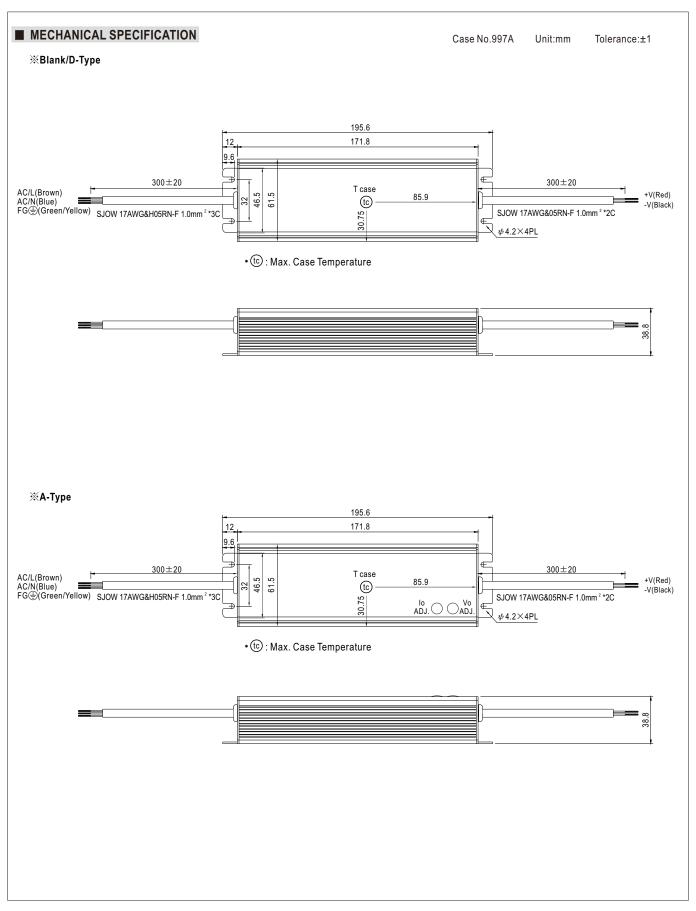




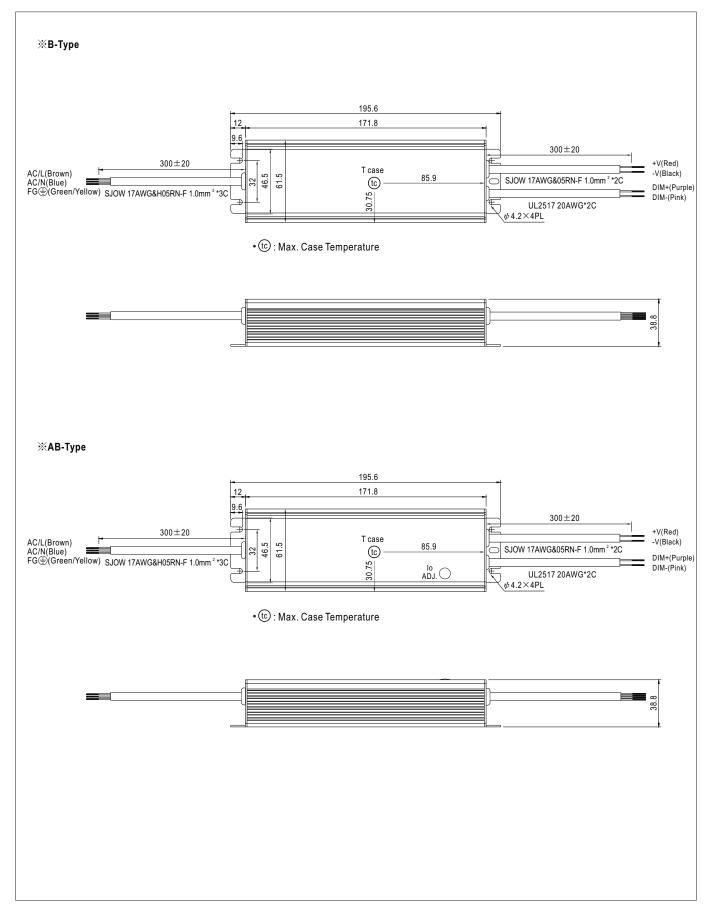
■ LIFE TIME









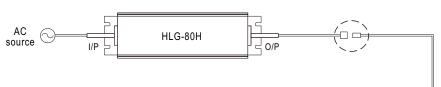




■ WATERPROOF CONNECTION

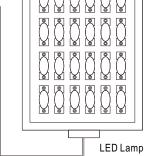
$\frak{\%}$ Waterproof connector

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

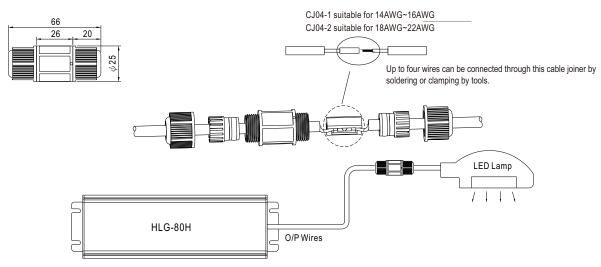


Size	Pin Configuration (Female)			
M12	000	000		
IVITZ	4-PIN	5-PIN		
	5A/PIN	5A/PIN		
Order No.	M12-04	M12-05		
Suitable Current	10A max.	10A max.		

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

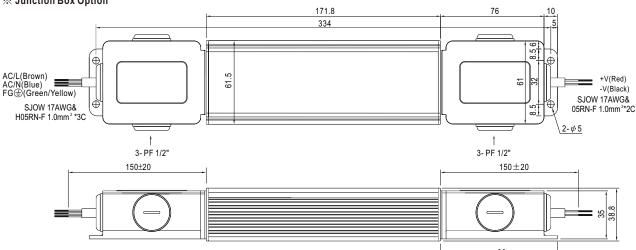


X Cable Joiner



O 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/B/Blank - Type. Please contact MEAW WELL for details.

HLG-80H-BL models with junction box on both input and output sides are UL LISTED approved(modified by B type only).

■ INSTALLATION MANUAL

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