







110

 $\overline{\mathbf{M}}$ 

#### Features

- Constant Voltage + Constant Current mode output
- Metal housing with class  ${\rm I}$  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

#### Applications

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- 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.

SELV IP65 IP67 (P)

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

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	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 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

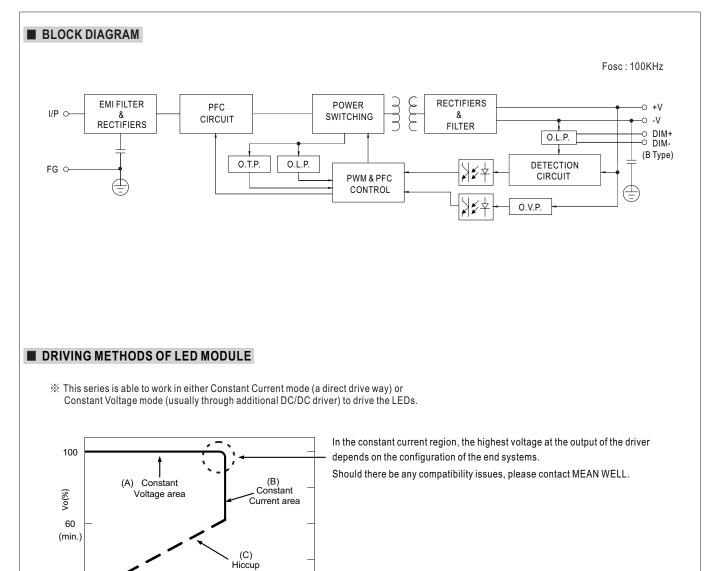
File Name:HLG-80H-SPEC 2019-12-10



#### 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	
MODEL	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	42 V 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	
	VOLTAGE ADJ. RANGE		r A-Type only		,	1					
OUTPUT		10.8 ~ 13.5V	13.5 ~ 17V	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V	
001101	CURRENT ADJ. RANGE	Adjustable fo	Adjustable for A/AB-Type only (via built-in potentiometer)								
	CORRENT 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%	
									,		
	HOLD UP TIME (Typ.)	1200ms,200ms/115VAC 500ms,200ms/230VAC									
			16ms at full load 230VAC /115VAC								
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 43								
		(Please refer	to "STATIC CH	ARACTERIST	IC" section)						
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF≧0.96/115	VAC, PF≧0.9	6/230VAC, PF	≧0.94/277VA	C @ full load					
	POWER FACTOR (Typ.)	(Please refer	to "POWER FA	CTOR (PF) CH	IARACTERIST	C" section)					
		THD< 20% ((	@load≧60%	/ 115VAC,230	VAC: @load	≥75% / 277VA	C)				
INPUT	TOTAL HARMONIC DISTORTION		0		STORTION (TH		,				
	EFFICIENCY (Typ.)	88%	89%	90%	90.5%	91%	91%	91%	91%	91%	
				4/230VAC			91/0	3170	91/0	3170	
	AC CURRENT (Typ.)	0.85A / 115VA			0.4A/277V/	-	-				
	INRUSH CURRENT (Typ.)	COLD START	70A(twidth=485	us measured a	It 50% Ipeak) at	230VAC; Per NE	EMA 410				
	MAX. No. of PSUs on 16A	3 units (circui	t breaker of tyr	e B) / 6 units (	(circuit breaker	of type C) at 2	30VAC				
	CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA/277VAC									
		95~108%									
	OVER CURRENT	NT Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed									
PROTECTION		$14 \sim 17V \qquad 18 \sim 24V \qquad 23 \sim 30V \qquad 28 \sim 35V \qquad 35 \sim 43V \qquad 41 \sim 49V \qquad 48 \sim 58V \qquad 54 \sim 63V \qquad 59 \sim 68V$									
	OVER VOLTAGE		o voltage, re-po		1		11 101	10 001	01 001		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
	WORKING TEMP.			e refer to "OU	IPUI LOAD V	STEMPERATU	JRE" section)				
	MAX. CASE TEMP.	Tcase= +80°C									
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./1cvc	le, period for	72min, each al	ong X, Y, Z axe	s				
		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;EN/AS/NZS 61347-1,EN/AS/NZS 61347-2-13 independen									
	SAFETY STANDARDS Note.8										
	SALLIT STANDARDS Note.0	IP65 or IP67,KC61347-1,KC61347-2-13(except for AB,BL-type) approved; Design refer to UL60950-1, TUV EN60950-1									
0 A E E T V O							u, Designi relei	10 0200930-1,	10V EN00950	-1	
SAFETY &	WITHSTAND VOLTAGE				/P-FG:1.5KVA						
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 Note.8	Compliance to	o EN55015, EN	V61000-3-2 Cla	ass C (@ load	≧60%); EN610	000-3-3,GB17	743 and GB176	625.1, EAC TP	TC 020	
	EMC IMMUNITY	Compliance to	EN61000-4-2,	3,4,5,6,8 <u>,</u> 11, EN	N61547, light in	dustry level (sur	ge immunity Li	ne-Earth 4KV, Li	ne-Line 2KV), E	EAC TP TC 02	
	MTBF	1069K hrs min. Telcordia SR-332 (Bellcore) ; 357.8K hrs min. MIL-HDBK-217F (25℃)									
OTHERS	DIMENSION	195.6*61.5*3	8.8mm (L*W*H	)							
	PACKING	0.84Kg; 16pc	s/14.4Kg/0.540	CUFT							
	1. All parameters NOT special		•		ut, rated curre	nt and 25°C of	f ambient tem	perature.			
NOTE		-		-					pacitor.		
	<ol> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> </ol>										
		METHODS OF LED MODULE".									
		eded under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.									
		ength of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.									
		ver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the									
		stallation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.									
		Il 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.	es 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.									
		al life expectan	cy of >62,000	hours of operation	ation when Tc	ase, particularly	(tc) point (or	TMP, per DLC	;), is about 75	C or less.	
		-	-				(tc) point (or	TMP, per DLC	;), is about 75	C or less.	
	9. This series meets the typica	y statement on	MEAN WELL	's website at I	http://www.mea	anwell.com.	0				
	<ol> <li>9. This series meets the typica</li> <li>10. Please refer to the warrant</li> </ol>	y statement on derating of 3.5°	MEAN WELL C/1000m with	's website at h fanless mode	http://www.mea Is and of 5°C/*	anwell.com. 1000m with fan	models for o	perating altitude			





Typical output current normalized by rated current (%)

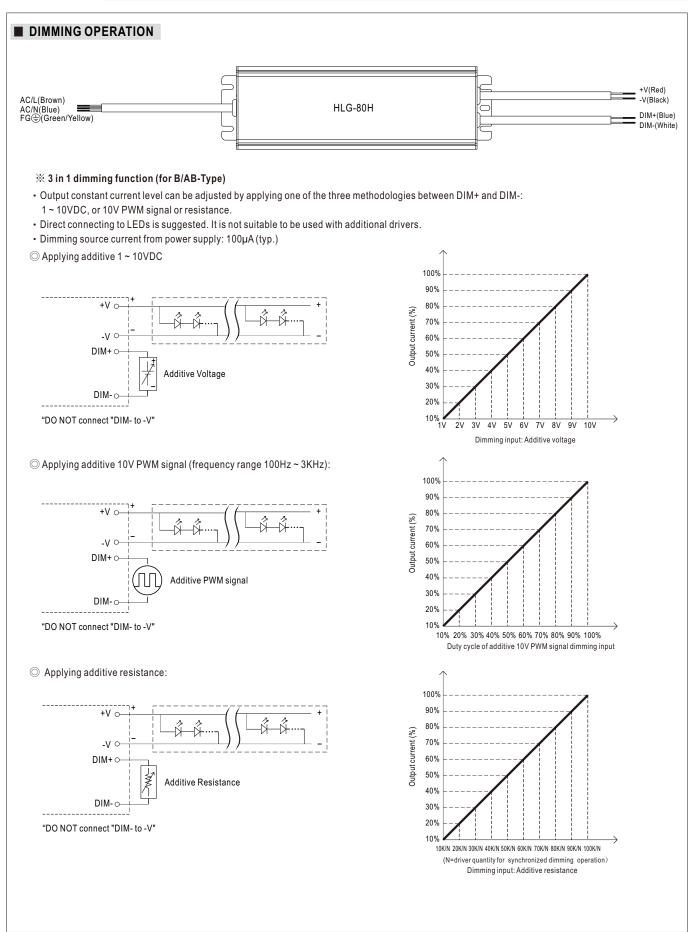
50

Protection

100

lo (%)

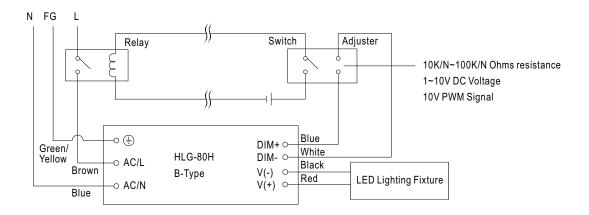






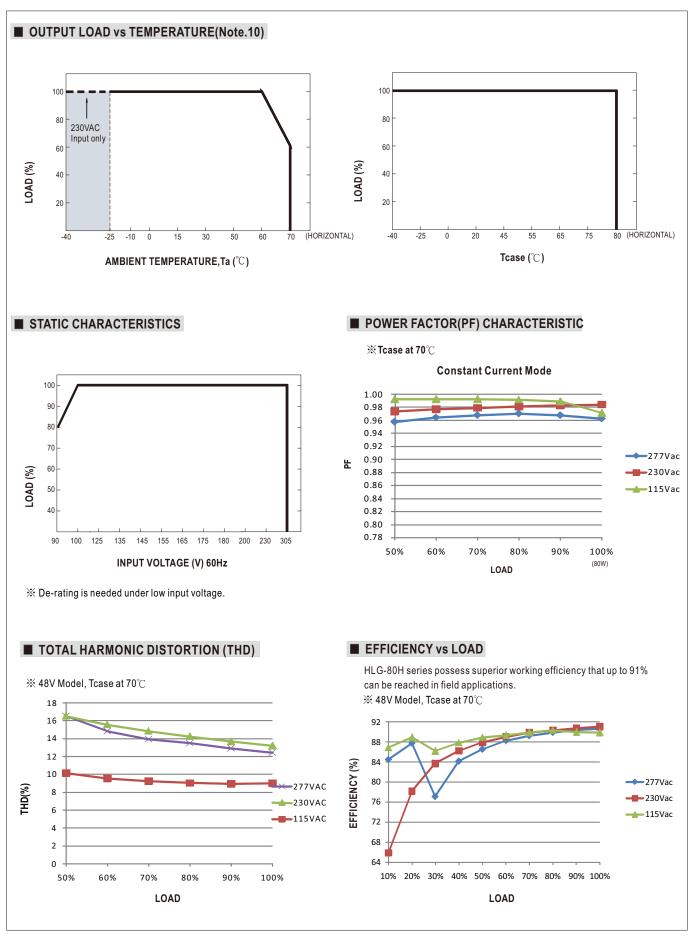
## HLG-80H series

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.

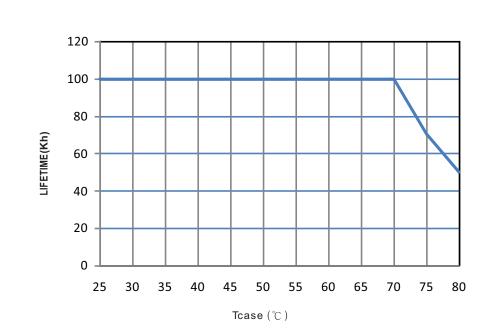




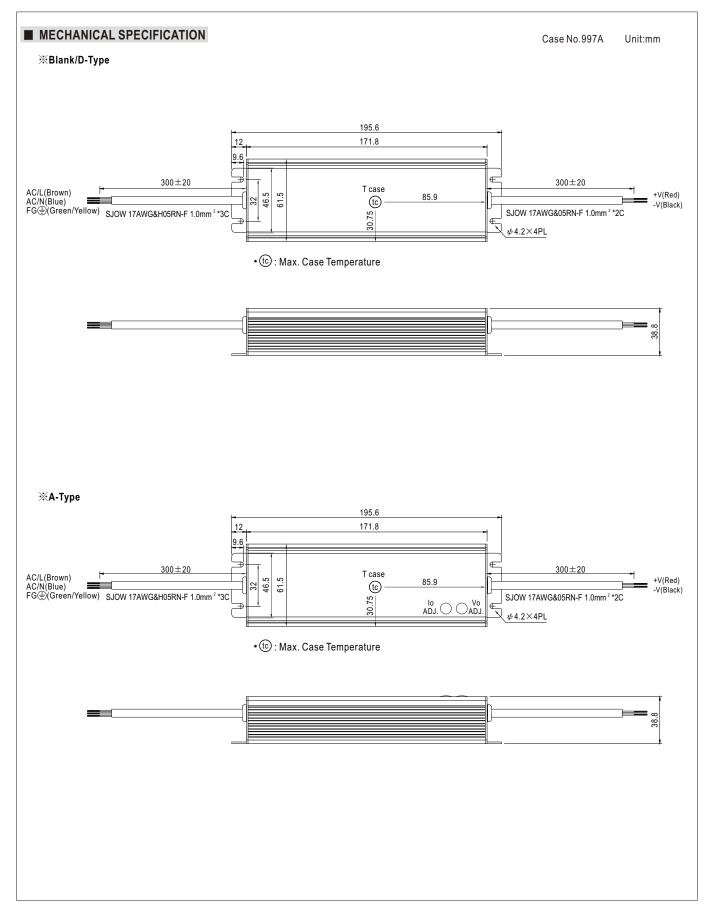


## HLG-80H series

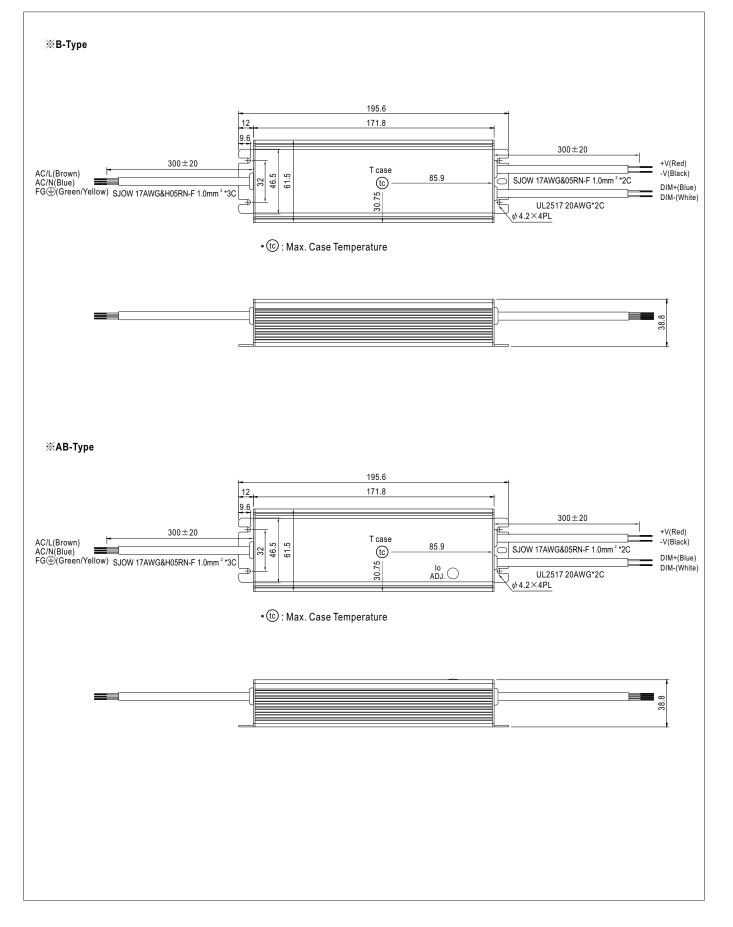
LIFE TIME













#### WATERPROOF CONNECTION

#### $\divideontimes {\rm Waterproof\, connector}$

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

