

· 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 80H - 15 A HI G

HLG - 00H - 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 2022-02-18



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		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
	KIFFEL & NOISE (max.) Note.2					2001110p-p	2001109-0	2001109-0	20011vp-p	200111vp-p	
OUTPUT	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-ir	n potentiomete	er)					
	CONNENT ADD. NANCE	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%	$\pm 2.0\%$	±1.0%	±1.0%	±1.0%	±1.0%	$\pm 1.0\%$	$\pm 1.0\%$	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$	±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	1					
	HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC									
		90 ~ 305VAC 127 ~ 431VDC									
	VOLTAGE RANGE Note.5										
	FREQUENCY RANGE	47 ~ 63Hz PF≥0.96/115VAC, PF≥0.96/230VAC, PF≥0.94/277VAC @ full load									
	POWER FACTOR (Typ.)		,	,		0					
				. ,	IARACTERIST	,					
	TOTAL HARMONIC DISTORTION					≧75% / 277VA	C)				
INPUT		`			TORTION (TH	, <u>, , , , , , , , , , , , , , , , , , </u>					
	EFFICIENCY (Typ.)	88%	89%	90%	90.5%	91%	91%	91%	91%	91%	
	AC CURRENT (Typ.)	0.85A / 115VA		A/230VAC	0.4A/277VA	-					
	INRUSH CURRENT (Typ.)	COLD START 70A(twidth=485µ/s measured at 50% Ipeak) at 230VAC; Per NEMA 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									
		95 ~ 108%									
	OVER CURRENT		ant limiting an		tion llu often for	lt oondition in n	d				
		Constant current limiting, recovers automatically after fault condition is removed									
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	14 ~ 17V	18 ~ 24V	23~30V	28 ~ 35V	35 ~ 43V	41 ~ 49V	48 ~ 58V	54 ~ 63V	59~68V	
			p voltage, re-po								
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	Tcase= -40 ~ +80℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
	MAX. CASE TEMP.	Tcase=+80°C									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C((0~60°C)								
	VIBRATION		· /	le neriod for	72min each al	ong X, Y, Z axe	s				
								NS/NZS 61347_1		N79 613/7-2	
		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									
	SAFETY STANDARDS Note.8										
		54A only), IP65 or IP67,KC61347-1,KC61347-2-13(except for AB,BL-type) approved									
SAFETY &	WITHSTAND VOLTAGE				/P-FG:1.5KVA						
EMC	ISOLATION RESISTANCE				00VDC/25°C/						
	EMC EMISSION Note.8			5015, BS EN/E	N61000-3-2 C	lass C (@ load	≧60%); BS E	N/EN61000-3-3	3,GB17743 an	d GB17625.	
		EAC TP TC 0	20								
		Compliance to	o BS EN/EN61	000-4-2,3,4,5,	6,8,11, BS EN/	EN61547, light	industry level	(surge immunit	y Line-Earth 4	KV,	
	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, Line-Line 2KV), EAC TP TC 020										
	MTBF	2992.9K hrs r	nin. Telcord	ia SR-332 (Bel	llcore) ; 289.1K	hrs min. MI	L-HDBK-217F	(25°C)			
OTHERS	DIMENSION		8.8mm (L*W*H	,							
	PACKING		s/14.4Kg/0.540	,							
	1. All parameters NOT special	0.1	•		ut, rated curre	nt and 25°C of	f ambient tem	perature			
NOTE	2. Ripple & noise are measure	-							pacitor.		
	3. Tolerance : includes set up t		-	-	-			,			
	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.										
	 Be reading may be needed and new input voltages. Induce read to be only the original read to increase of the set up time. 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 (c) point (or TMP, per DLC), is about 75°C or less.										
		Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com.									
	11 The ambient temperature of	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(6500)									
		oplication note and IP water proof function installation caution, please refer our user manual before using.									
	12. For any application note an			tallation cautio	on, please refe	r our user man	ual before usi	ng.			
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Typical output current normalized by rated current (%)

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80W Constant Voltage + Constant Current LED Driver

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.



80W Constant Voltage + Constant Current LED Driver





LIFE TIME









80W Constant Voltage + Constant Current LED Driver





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.

