







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

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.

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	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 2018-05-29



SPECIFICATION

		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	7.2 ~12V	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
				via built-in pot		Zoompp	20011179 9	2001119.9	20011179 9	Zoomvpp
	VOLTAGE ADJ. RANGE			17 ~ 22V	22 ~ 27V	27~331/	33 ~ 40V	38 ~ 46V	13~531/	19~581/
OUTPUT										
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer) 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%
		±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%
- F		1200ms,200n			230VAC					
	HOLD UP TIME (Typ.)	16ms at full load 230VAC /115VAC								
	VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 431	IVDC						
	VOLTAGE NANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz								
		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	ARACTERIST	IC" section)				
		· ·		. ,		≥75% / 277VA	C)			
	TOTAL HARMONIC DISTORTION		-	ARMONIC DIS	-		,			
	EFFICIENCY (Typ.)	88%	89%	90%	90.5%	91%	91%	91%	91%	91%
F	AC CURRENT (Typ.)	0.85A / 115VA		A / 230VAC	0.4A/277V/		01/0	0170	0170	0170
-	INRUSH CURRENT (Typ.)						MA /10			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	COLD START 70A(twidth=485µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA / 277VAC								
	OVER CURRENT	95 ~ 108%								
	OVER CORRENT	Constant curr	ent limiting, re	covers automat	tically after fau	It condition is re	emoved			
	SHORT CIRCUIT	Hiccup mode,	recovers auto	matically after	fault condition	is removed				
PROTECTION		14 ~ 17V	18~24V	23~30V	28 ~ 35V	35~43V	41~49V	48~58V	54 ~ 63V	59~68V
	OVER VOLTAGE	Shut down o/r	voltage, re-po	ower on to reco	ver					
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.	Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
	MAX. CASE TEMP.	Tcase= +80°(- (
			 non-condensir	ng						
ENVIRONMENT -		-40 ~ +80°C,		19						
H	STORAGE TEMP., HUMIDITY									
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)								
	VIBRATION		-			ong X, Y, Z axe				
						HLG-80H-□BL;E			-	
	SAFETY STANDARDS Note.8	optional models for J61347-1, J61347-2-13, GB19510.1, GB19510.14, EAC TP TC 004, BIS IS15885 (for 36A, 54A only), IP65 or IP67								
		approved ; Des	ign refer to UL6	0950-1, TUV EN	160950-1					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O/	P-FG:1.5KVA	C				
F	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
EMC						≧60%); EN610	00-3-3,GB177	'43 and GB176	25.1, EAC TP 1	TC 020
	EMC EMISSION Note.8				12					
	EMC EMISSION Note.8 EMC IMMUNITY		EN61000-4-2.	3,4,5,6.8,11. EN	V61547, liaht in	idustry level (sur	ge minumit Li			
-	EMC IMMUNITY	Compliance to		0		dustry level (sur	ge minutity Li			
	EMC IMMUNITY MTBF	Compliance to 357.8K hrs mi	n. MIL-HDE	3 K-217F (25° C)		idustry level (sur			,	
OTHERS	EMC IMMUNITY MTBF DIMENSION	Compliance to 357.8K hrs mi 195.6*61.5*38	n. MIL-HDE 3.8mm (L*W*H	8 K-217F (25° C))		idustry level (sur				
OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING	Compliance to 357.8K hrs mi 195.6*61.5*38 0.84Kg; 16pcs	n. MIL-HDE 3.8mm (L*W*H s/14.4Kg/0.540	8K-217F (25℃)) CUFT)					
OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special	Compliance to 357.8K hrs mi 195.6*61.5*38 0.84Kg; 16pcs ly mentioned at	n. MIL-HDE 3.8mm (L*W*H 5/14.4Kg/0.540 re measured a	8K-217F (25°C)) CUFT it 230VAC inpu) ut, rated curre	nt and 25° C of	ambient temp	perature.		
OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure	Compliance to 357.8K hrs mi 195.6*61.5*38 0.84Kg; 16pcs ly mentioned a d at 20MHz of	n. MIL-HDE 3.8mm (L*W*H s/14.4Kg/0.54C re measured a bandwidth by	8K-217F (25℃)) CUFT tt 230VAC inpu using a 12" tw) ut, rated curre <i>v</i> isted pair-wire	nt and 25° C of	ambient temp	perature.		
OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special	Compliance to 357.8K hrs mi 195.6*61.5*38 0.84Kg; 16pcs by mentioned a d at 20MHz of tolerance, line	n. MIL-HDE 3.8mm (L*W*H s/14.4Kg/0.540 re measured a bandwidth by regulation and	K-217F (25°C)) CUFT tt 230VAC inpu using a 12" tw load regulation) ut, rated curre <i>v</i> isted pair-wire	nt and 25° C of	ambient temp	perature.		
OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up	Compliance to 357.8K hrs mi 195.6*61.5*38 0.84Kg; 16pcs by mentioned a d at 20MHz of tolerance, line IETHODS OF	n. MIL-HDE 3.8mm (L*W*H s/14.4Kg/0.540 re measured a bandwidth by regulation and LED MODULE	K-217F (25°C)) CUFT tt 230VAC inpu using a 12" tw load regulation) ut, rated curre visted pair-wire n.	nt and 25°C of e terminated wi	ambient temp th a 0.1uf & 4	perature. 7uf parallel cap		
OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M	Compliance to 357.8K hrs mi 195.6*61.5*38 0.84Kg; 16pcs by mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input	n. MIL-HDE 3.8mm (L*W*H s/14.4Kg/0.540 re measured a bandwidth by regulation and LED MODULE voltages. Plea	BK-217F (25°C)) CUFT using a 12" tw load regulation ". se refer to "ST) ut, rated curre visted pair-wire n. ATIC CHARA	nt and 25°C of e terminated wi	ambient temp th a 0.1uf & 4 ections for det	perature. 7uf parallel cap ails.		
OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M 5. De-rating may be needed u	Compliance to 357.8K hrs mi 195.6*61.5*38 0.84Kg; 16pcs by mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input asured at first c	n. MIL-HDE 8.8mm (L*W*H s/14.4Kg/0.54C re measured a bandwidth by regulation and LED MODULE voltages. Plea xold start. Turm	K-217F (25°C)) CUFT using a 12" tw load regulation :". se refer to "ST ing ON/OFF th) ut, rated curre visted pair-wird n. ATIC CHARA ne driver may	nt and 25°C of e terminated wi CTERISTIC" s lead to increas	ambient temp th a 0.1uf & 4 ections for det e of the set up	perature. 7uf parallel cap ails. p time.	pacitor.	• the
OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M 5. De-rating may be needed u 6. Length of set up time is measure	Compliance to 357.8K hrs mi 195.6*61.5*38 0.84Kg; 16pcs by mentioned a d at 20MHz of tolerance, line IETHODS OF nder low input asured at first c a component ti	n. MIL-HDE 8.8mm (L*W*H s/14.4Kg/0.540 re measured a bandwidth by regulation and LED MODULE voltages. Plea xold start. Turm hat will be ope	K-217F (25°C)) CUFT using a 12" tw load regulation c". se refer to "ST ing ON/OFF th rrated in combi) ut, rated curre visted pair-wire n. ATIC CHARA The driver may ination with fir	nt and 25°C of e terminated wi CTERISTIC" s lead to increas al equipment. S	ambient temp th a 0.1uf & 4 ections for det e of the set up Since EMC pe	perature. 7uf parallel cap ails. p time. vformance will	pacitor.	• the
OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING M 5. De-rating may be needed u 6. Length of set up time is mea 7. The driver is considered as	Compliance to 357.8K hrs mi 195.6*61.5*38 0.84Kg; 16pcs by mentioned at d at 20MHz of tolerance, line IETHODS OF nder low input asured at first c a component ti al equipment m	n. MIL-HDE 3.8mm (L*W*H //14.4Kg/0.540 re measured a bandwidth by regulation and LED MODULE voltages. Plea: volt start. Turn hat will be open anufacturers i	BK-217F (25°C)) CUFT using a 12" tw load regulation ". se refer to "ST ing ON/OFF th rrated in combi must re-qualify) ut, rated curre risted pair-wire n. ATIC CHARA he driver may ination with fir EMC Directiv	nt and 25°C of e terminated wi CTERISTIC" s lead to increas nal equipment. s re on the comp	ambient temp th a 0.1uf & 4' ections for det e of the set up Since EMC pe lete installatior	perature. 7uf parallel cap ails. 5 time. vformance will 1 again.	bacitor.	the
DTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Please refer to "DRIVING N 5. De-rating may be needed u 6. Length of set up time is mea 7. The driver is considered as complete installation, the fin 8. To fulfill requirements of the	Compliance to 357.8K hrs mi 195.6*61.5*38 0.84Kg; 16pcs by mentioned au ed at 20MHz of tolerance, line teTHODS OF nder low input asured at first of a component th al equipment m latest ErP regu al life expectance	n. MIL-HDE 3.8mm (L*W*H 5/14.4Kg/0.54C re measured a bandwidth by regulation and LED MODULE voltages. Plea voltages. P	K-217F (25°C)) CUFT using a 12" tw load regulation ". se refer to "ST ing ON/OFF th arated in combi must re-qualify ing fixtures, thi hours of opera) ut, rated curre risted pair-wire n. ATIC CHARA ne driver may ination with fir EMC Directiv s LED driver ation when Tc	nt and 25°C of e terminated wi CTERISTIC" s lead to increas hal equipment. s re on the comp can only be use ase, particularly	ambient temp th a 0.1uf & 4 ections for det e of the set up Since EMC pe lete installatior ed behind a sy	perature. 7uf parallel cap ails. p time. prformance will n again. witch without p	bacitor. be affected by ermanently	











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





80W Constant Voltage + Constant Current LED Driver

HLG-80H series

LIFE TIME









80W Constant Voltage + Constant Current LED Driver





■ 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.

