

HLG-100H series







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

- 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-100H series is a 100W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-100H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 20V and 54V. Thanks to the high efficiency up to 93%, 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-100H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.



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 and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

File Name:HLG-100H-SPEC 2020-02-25



SPECIFICATION

MODEL		HLG-100H-20	HLG-100H-24	HLG-100H-30	HLG-100H-36	HLG-100H-42	HLG-100H-48	HLG-100H-54[
	DC VOLTAGE	20V	24V	30V	36V	42V	48V	54V						
OUTPUT	CONSTANT CURRENT REGION Note.4	10~20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V						
	RATED CURRENT	4.8A	4A	3.2A	2.65A	2.28A	2A	1.77A						
	RATED POWER	96W	96W	96W	95.4W	95.76W	96W	95.58W						
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p						
		Adjustable for A/	AB-Type only (via l	built-in potentiome	eter)									
	VOLTAGE ADJ. RANGE	17~22V	22~27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49~58V						
		Adjustable for A/	AB-Type only (via l	built-in potentiome	eter)			1						
	CURRENT ADJ. RANGE	3~4.8A	2.5~4A	2~3.2A	1.65 ~ 2.65A	1.4 ~ 2.28A	1.25 ~ 2A	1.1~1.77A						
	VOLTAGE TOLERANCE Note.3		±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%						
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%						
		1200ms,50ms/11	l		- 0.070	-0.070		10.070						
	HOLD UP TIME (Typ.)			01113/230 VAG										
	HOLD OF TIME (Typ.)	16ms / 115VAC, 230VAC												
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC												
		(Please refer to "STATIC CHARACTERISTIC" section)												
	FREQUENCY RANGE	47~63Hz												
	POWER FACTOR (Typ.)			AC, PF≧0.93/277V	0									
				PF) CHARACTERIS	,									
	TOTAL HARMONIC DISTORTION			-	d≧75%/277VAC)									
INPUT				IC DISTORTION (THD)" section)									
	EFFICIENCY (Typ.)	93%	93%	93%	93%	93%	93%	93%						
-	AC CURRENT (Typ.)	1.2A / 115VAC	0.55A / 230VAC	0.5A / 277VA	С									
	INRUSH CURRENT (Typ.)	COLD START 60/	COLD START 60A(twidth=415µx measured at 50% Ipeak) at 230VAC; Per NEMA 410											
	MAX. No. of PSUs on 16A	1 unito (circuit br	akar of tupo B) / 9	unita (airauit braak	or of turno (C) at 220									
	CIRCUIT BREAKER	/ units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230\/AC												
	LEAKAGE CURRENT	<0.75mA/277VAC												
		95 ~ 106%												
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed												
	SHORT CIRCUIT Constant current limiting, recovers automatically after fault condition is removed													
PROTECTION								59 ~ 65V						
	OVER VOLTAGE			overy or re-power c	-		000	00 001						
	OVER TEMPERATURE	· · · ·	-			0.000								
		Shut down o/p voltage, recovers automatically after temperature goes down Trasse=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)												
	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	-40 ~ +80°C, 10 ~ 95% RH												
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)												
	VIBRATION	,	7 71	d for 72min. each	0,,									
		UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13 independent; GB19510.1, GB19510.1												
	SAFETY STANDARDS Note.8	J IP65 or IP67, J61347-1, J61347-2-13(except for B,AB and D-type), KC61347-1,KC61347-2-13(except for D-type), EAC TP TC 004 approved ; design refer to UL60950-1, TUV EN60950-1												
	WITHSTAND VOLTAGE													
EMC	ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH I/P-O/P, I/P-FG:0/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH												
EMC						() . ENG1000 2 2 0	D17712 and CD1702							
	EMC EMISSION Note.8				Class C @ load≧60									
	EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Ea EAC TP TC 020							V, Line-Line ZK						
	MTBF	192.2K hrs min.	MIL-HDBK-217F	(25°C)										
OTHERS	DIMENSION	220*68*38.8mm ((20 0)										
		1.12Kg; 12pcs/14	,											
	PACKING 1. All parameters NOT special		-	C input rated our	ropt and 25°C of a	mbiont tomporatu	20							
NOTE		-												
	 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 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.													
	 Be taking may be needed and now input voltages in ease release of original original to relation to second a for details. 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.													
	complete installation, the final	8.To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently												
		latest ErP regulation	on for lighting fixtur	es, this LLD unver	can only be used	connected to the mains.								
	8.To fulfill requirements of the connected to the mains.	-			-									
	8.To fulfill requirements of the	-			-									
	8.To fulfill requirements of the connected to the mains.	I life expectancy of	f >62,000 hours of	operation when T	case, particularly (t									
	8.To fulfill requirements of the connected to the mains.9. This series meets the typica 10. Please refer to the warrant 11. The ambient temperature of the series of the temperature of temperature of the temperature of temp	I life expectancy of the statement on ME derating of 3.5° C/1	f >62,000 hours of EAN WELL's webs 000m with fanless	operation when T ite at http://www.m models and of 5°C	case, particularly (t eanwell.com 2/1000m with fan n	point (or TMP, p	per DLC), is about	80°C or less.						
	8.To fulfill requirements of the connected to the mains.9. This series meets the typica 10. Please refer to the warrant	I life expectancy of ty statement on ME derating of 3.5°C/1 nd IP water proof fi	f >62,000 hours of EAN WELL's webs 000m with fanless unction installation	operation when T ite at http://www.m models and of 5°C	case, particularly (t eanwell.com 2/1000m with fan n	point (or TMP, p	per DLC), is about	80°C or less.						











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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.







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LIFE TIME













HLG-100H series

WATERPROOF CONNECTION

※ Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-100H to operate in dry/wet/damp or outdoor environment.

