

























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

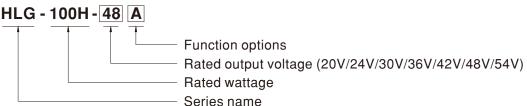
Applications

- · 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.

Description

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 $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 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.

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 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



SPECIFICATION

		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	
ОИТРИТ	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	
				built-in potentiome			F F		
	VOLTAGE ADJ. RANGE	17 ~ 22V	22 ~ 27V	27 ~ 33V	33 ~ 40V	38 ~ 46V	43 ~ 53V	49 ~ 58V	
		Adjustable for A/AB-Type only (via built-in potentiometer)							
	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%	
	LINE REGULATION	±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%	
					⊥0.5%		⊥0.5%	±0.5%	
		1200ms,50ms/115VAC 500ms,50ms/230VAC							
	HOLD UP 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.)	PF≧0.98/115VA0	C, PF≧0.95/230VA	AC, PF≧0.93/277V	/AC @ full load				
	FOWERTACTOR (Typ.)	(Please refer to "F	POWER FACTOR (F	PF) CHARACTERIS	STIC" section)				
	TOTAL HARMONIO BIOTORTION	THD< 20% (@ Io	ad≧60% / 115VA	C,230VAC; @ loa	d≧75% / 277VAC))			
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)							
	EFFICIENCY (Typ.)	93%	93%	93%	93%	93%	93%	93%	
	AC CURRENT (Typ.)	1.2A / 115VAC	0.55A / 230VAC	0.5A / 277VA	ıC				
	INRUSH CURRENT (Typ.)	COLD START 60/	A(twidth=415µs meas	sured at 50% Ipeak) a	at 230VAC; Per NEM	1A 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC							
	LEAKAGE CURRENT	<0.75mA / 277VAC							
PROTECTION	ELITORIOL GOTTILETT	95 ~ 106%							
	OVER CURRENT								
	CHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed Constant current limiting, recovers automatically after fault condition is removed							
	SHORT CIRCUIT	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 63V	59 ~ 65V	
	OVER VOLTAGE					47 ~ 55 V	54 ~ 65 V	39~03V	
		Shut down o/p voltage with auto-recovery or re-power on to recovery							
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down							
ENVIRONMENT :	WORKING TEMP.	Tcase= -40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)							
	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	10 ~ 500Hz, 5G 1	2min./1cycle, perio	od for 72min. each	along X, Y, Z axes				
	SAFETY STANDARDS Note.8	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 &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG; O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION Note.8								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2K EAC TP TC 020							
		192.2K hrs min.	MIL-HDBK-217F	(25°C)					
	MTBF			, /					
OTHERS			T *W*H)						
OTHERS	DIMENSION	220*68*38.8mm (,						
)THERS	DIMENSION PACKING	220*68*38.8mm (1.12Kg; 12pcs/14	.4Kg/0.8CUFT	AC input rated our	rent and 25°C of a	imbient temporatur	Δ		
OTHERS	DIMENSION PACKING 1. All parameters NOT special	220*68*38.8mm (1.12Kg; 12pcs/14 ly mentioned are n	.4Kg/0.8CUFT neasured at 230V/	•					
	DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure	220*68*38.8mm (1.12Kg; 12pcs/14 ly mentioned are ned at 20MHz of bar	.4Kg/0.8CUFT neasured at 230V/	12" twisted pair-w					
	DIMENSION PACKING 1. All parameters NOT special	220*68*38.8mm (1.12Kg; 12pcs/14 ly mentioned are ned at 20MHz of bar tolerance, line regu	.4Kg/0.8CUFT neasured at 230V/ ndwidth by using a ulation and load re	12" twisted pair-w					

- 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.
- 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 80°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