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• Type "HL" for use in Class I, Division 2

hazardous (Classified) location.









Applications

· LED street lighting

LED fishing lamp

LED high-bay lighting

· Parking space lighting

LED greenhouse lighting

Features

- Constant Voltage + Constant Current mode output
- · Metal housing with class ${\mathbb I}$ design
- Built-in active PFC function
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

Description

HLG-320H series is a 320W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-320H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for -40° C ~ $+90^{\circ}$ 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-320H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



- 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
С		Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

File Name:HLG-320H-SPEC 2021-12-07



SPECIFICATION

MODEL		HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54		
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12~24V	15 ~ 30V	18~36V	21~42V	24 ~ 48V	27 ~ 54V		
	RATED CURRENT	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A		
	RATED POWER	264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W		
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
							20011119 9	200mpp	20011119 9	ocom vp p		
	VOLTAGE ADJ. RANGE	Adjustable for A/C-Type only (via built-in potentiometer) 10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 21 ~ 26V 26 ~ 32V 32 ~ 39V 38 ~ 45V 43 ~ 52V 49 ~ 58V										
OUTPUT							32~390	30~43V	43~32V	49~300		
	CURRENT ADJ. RANGE	,			t-in potentiom	,	4.45 0.04	0.0 7.054		0.07 5.05		
		11 ~ 22A	9.5 ~ 19A	7.5 ~ 15A		5.35 ~ 10.7A		3.8 ~ 7.65A	3.35 ~ 6.7A	2.97 ~ 5.95		
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	$\pm 0.5\%$	$\pm 0.5\%$	±0.5%	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	±0.5%	$\pm 0.5\%$	$\pm 0.5\%$		
	LOAD REGULATION	$\pm 2.0\%$	$\pm 1.5\%$	±1.0%	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$		
	SETUP, RISE TIME Note.6	2500ms,80m	s/115VAC 5	500ms,80ms/2	230VAC							
	HOLD UP TIME (Typ.)	15ms / 115VAC, 230VAC										
		90 ~ 305VAC 127 ~ 431VDC										
	VOLTAGE RANGE Note.5											
	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR (Typ.)	PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.94/277VAC @ full load										
		(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)										
	TOTAL HARMONIC DISTORTION	THD<20% (@ load≧50% / 115VAC,230VAC; @ load≧75% / 277VAC)										
INPUT					STORTION (TH	, <u>, , , , , , , , , , , , , , , , , , </u>						
-	EFFICIENCY (Typ.) (230Vac)	91%	92.5%	93.5%	94%	94%	94.5%	95%	95%	95%		
	EFFICIENCY (Typ.) (277Vac)	91.5%	93%	94%	94.5%	94.5%	95%	95%	95%	95%		
	AC CURRENT (Typ.)	3.5A / 115VA0	C 1.65A/	230VAC	1.45A / 277VAC)						
	INRUSH CURRENT(Typ.)	COLD START	70A(twidth=101	0µs measured	at 50% Ipeak) at	230VAC; Per N	IEMA 410					
	MAX. No. of PSUs on 16A											
	CIRCUIT BREAKER	1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC										
	LEAKAGE CURRENT	<0.75mA / 277VAC										
PROTECTION												
	OVER CURRENT Note.4	95~108%										
		Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed										
	OVER VOLTAGE	14~17V 17.5~21V 22.5~27V 27~33V 33~37V 40~46V 46.5~53V 53.5~60V 59~65V										
	OVER VOLIAGE	Shut down and latch off o/p voltage, re-power on to recover										
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover										
ENVIRONMENT	WORKING TEMP. Tcase= -40 ~ +90 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)											
	MAX. CASE TEMP.	Tcase= +90°C										
	WORKING HUMIDITY	20 ~ 95% RH non-condensing										
	STORAGE TEMP., HUMIDITY											
	TEMP. COEFFICIENT											
		±0.03%/°C (0~50°C)										
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
		UL8750(type"HL"), CSA C22.2 No. 250.0-08; BS EN/EN/AS/NZS 61347-1, BS EN/EN/AS/NZS 61347-2-13 independent; CB10510_1_CB10510_14: JB55 or JB57 (avgent for HL C, 220H C, type); J61247_1_J61247_2_12 (avgent for B AB C, and D, type)										
	SAFETY STANDARDS	GB19510.1,GB19510.14; IP65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2-13 (except for B,AB,C and D-type),										
		EAC TP TC 004;KC61347-1,KC61347-2-13(except for AB,C-type) approved										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC										
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH										
EMC	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class C (@ load≧50%) ; BS EN/EN61000-3-3, GB17743 and GB17625.1, EAC TP TC 020										
		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity										
	EMC IMMUNITY	Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020										
	MTBF	157.1K hrs mi		3K-217F (25°C								
OTHERS	DIMENSION	252*90*43.8n			/							
			16Kg/0.92CUF	т								
	PACKING	0.1	0		ut rotod ourror	t and OF°C at	ambient tom	oratura				
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 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. Please refer to "DRIVING METHODS OF LED MODULE". De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections 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. 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. 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. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (to) 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. 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(6500tt) 12. For any application note and IP water proof function installation caution, please refer our user manual before using. 											





Typical output current normalized by rated current (%)

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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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WATERPROOF CONNECTION

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

Waterproof connector can be assembled on the output cable of HLG-320H to operate in dry/wet/damp or outdoor environment.

