











## Features

- · Constant Voltage + Constant Current mode output
- Metal housing with class 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

# 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.

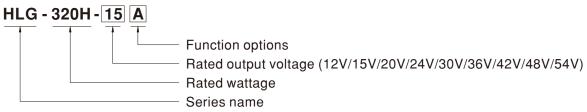
## **■** GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

# **■** 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 $^{\circ}$ 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



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 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



### **SPECIFICATION**

/ODEL		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		7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V				
ОИТРИТ	RATED CURRENT	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A				
		264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W				
	RATED POWER													
	RIPPLE & NOISE (max.) Note.2													
	VOLTAGE ADJ. RANGE	Adjustable for A/C-Type only (via built-in potentiometer)												
		10.8 ~ 13.5V		17 ~ 22V	21 ~ 26V	26 ~ 32V	32 ~ 39V	38 ~ 45V	43 ~ 52V	49 ~ 58V				
	CURRENT ADJ. RANGE	_			t-in potentiome				1	I				
		11 ~ 22A	9.5 ~ 19A	7.5 ~ 15A		5.35 ~ 10.7A	4.45 ~ 8.9A	3.8 ~ 7.65A	3.35 ~ 6.7A	2.97 ~ 5.9				
	VOLTAGE TOLERANCE Note.3		±2.0%	±1.5%	±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%	±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	2500ms,80ms/115VAC 500ms,80ms/230VAC												
	HOLD UP TIME (Typ.)	15ms / 115VA	C, 230VAC											
	VOLTACE BANCE No. 5	90 ~ 305VAC 127 ~ 431VDC												
INPLIT	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)												
	FREQUENCY RANGE	47 ~ 63Hz												
		PF≧0.98/115VAC, PF≧0.95/230VAC, PF≧0.94/277VAC @ full load												
	POWER FACTOR (Typ.)				ARACTERISTI	_								
	TOTAL HARMONIC DISTORTION	,		,		,	C)							
		THD< 20% (@ load≥50% / 115VAC,230VAC; @ load≥75% / 277VAC)  (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)												
	EFFICIENCY (Typ.) (230Vac)	,	92.5%				94.5%	95%	95%	95%				
		91%		93.5%	94%	94%								
	EFFICIENCY (Typ.) (277Vac)	91.5%	93%	94%	94.5%	94.5%	95%	95%	95%	95%				
	AC CURRENT (Typ.)	3.5A / 115VAC 1.65A / 230VAC 1.45A / 277VAC												
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=1010µs measured at 50% Ipeak) at 230VAC; Per NEMA 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												
	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												
		14 ~ 17V	17.5 ~ 21V	22.5 ~ 27V	27 ~ 33V	33 ~ 37V	40 ~ 46V	46.5 ~ 53V	53.5 ~ 60V	59 ~ 65V				
	OVER VOLTAGE							10.0 001	00.0	00 001				
	OVER TEMPERATURE	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  Tcase= -40 ~ +90 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)												
ŀ	WORKING TEMP.		,	e refer to OU	IPUI LUAD VS	STEMPERATO	JRE Section)							
	MAX. CASE TEMP.	Tcase=+90°C												
NVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing												
	STORAGE TEMP., HUMIDITY													
	TEMP. COEFFICIENT	$\pm 0.03\%$ °C (0 ~ 50°C)												
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes												
SAFETY & EMC		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;												
	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												
	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 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												
	1	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge imm Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020						unity						
	EMC IMMUNITY		V Line Line 24	(\/\ EAC TD T	C 020									
		Line-Earth 4K	,	,,			UL LIBBY 6:=:	E (OE°C)						
	MTBF	Line-Earth 4K 1702.2K hrs n	nin. Telcordi	,,	C 020 Icore); 157.2	K hrs min. M	IIL-HDBK-217	F (25°C)						
OTHERS		Line-Earth 4K	nin. Telcordi nm (L*W*H)	ia SR-332 (Bel		K hrs min. M	IIL-HDBK-217I	F (25°C)						

## NOTE

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. 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.
- 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 (to) point (or TMP, per DLC), is about 75°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
- \*\* Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx