







#### 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

### 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-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



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



#### 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		7.5 ~ 15V	10 ~ 20V	12~24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24~48V	27 ~ 54V	
OUTPUT	RATED CURRENT REGION Note.4	22A	19A	10~20V	12~24v 13.34A	10.7A	8.9A	7.65A	6.7A	5.95A	
	RATED CORRENT	22A 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	
	RIFFLE & NOISE (IIIdx.) Note.2						230111vp-p	23011vp-p	250mvp-p	33011vp-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         Adjustable for A/AB/C-Type only (via built-in potentiometer)									
	CURRENT ADJ. RANGE				· ·						
		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		±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%	$\pm 0.5\%$	
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
		2500ms,80m		500ms,80ms/2	30VAC						
	HOLD UP TIME (Typ.)	15ms / 115VAC, 230VAC									
-	VOLTAGE RANGE Note.5	Note-5 90 ~ 305VAC 127 ~ 431VDC (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.)	(Please refer	to "POWER FA	CTOR (PF) CH	ARACTERISTI	C" section)					
	TOTAL HARMONIC DISTORTION	THD< 20% ((	@ load≧50%	/ 115VAC,230	VAC; @load≧	≧75% / 277VA	C)				
		(Please refe	to "TOTAL HA	RMONIC DIS	TORTION (TH	ID)" section)					
INPUT	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 / 115VA	C 1.65A/	230VAC	1.45A / 277VA0	)					
	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	4it (ainait	hun al cau af hun a			(ture C) et 00	0)/// 0				
	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	Note.4									
		Constant current limiting, recovers automatically after fault condition is removed									
PROTECTION	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									
		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	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
CAFETY	VIBRATION SAFETY STANDARDS	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13, EN62384 independent;									
	SALETT STANDARDS	GB19510.1,GB19510.14(except for C,D-type); IP65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2-13 (for A,B,Blank-type only) EAC TP TC 004;KC61347-1,KC61347-2-13(except for AB,C-type) approved									
	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	/P-FG:1.5KVA	С					
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH									
EMC	EMC EMISSION		Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load≥50%) ; EN61000-3-3, EN61000-3-3,								
	GB/11/743 and GB/1625(except for C,D-type),EAC TP 1C 020,PSE J55015(for A,B,Blank-type only), KC K00015(except for AB,C     Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line										
	MTDE	EAC TP TC 020,KC K61547(except for AB,C-type) 157.1K hrs min. MIL-HDBK-217F (25°C)									
OTHERO	MTBF			on-21/F (25 C	)						
OTHERS	DIMENSION	252*90*43.8n	,	T							
	PACKING 1.88Kg; 8pcs/16Kg/0.92CUFT										
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> </ol>										
	<ol> <li>A rough a noise are measured at 200 m2 of bandwidth by using a 12 twisted pair-wire terminated with a 0.101 &amp; 4701 parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> </ol>										
	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.										
		I life expectancy of >62,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75 $^{\circ}$ C or less.									
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		Jerating of $3.5^{\circ}$ C/1000m with fanless models and of $5^{\circ}$ C/1000m with fan models for operating altitude higher than 2000m(6500ft).									
	12. For any application note an https://www.meanwell.com			tallation cautio	n, please refer	our user man	ual before usir	ng.			





Typical output current normalized by rated current (%)

50

Protection

lo (%)

100







## HLG-320H series

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.







HLG-320H series

### ■ LIFE TIME













#### 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.



Please refer to : http://www.meanwell.com/manual.html