



320W Constant Voltage + Constant Current LED Driver

### HLG-320H series

M M SELV IP65 IP67 🗭

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

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

hazardous (Classified) location.

Applications

· LED street lighting

LED fishing lamp

GTIN CODE

LED high-bay lighting

· Parking space lighting

LED greenhouse lighting









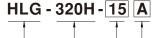
#### Features

- 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 $-40^{\circ}$ 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

#### 42V/48V/54V)



## HLG-320H series

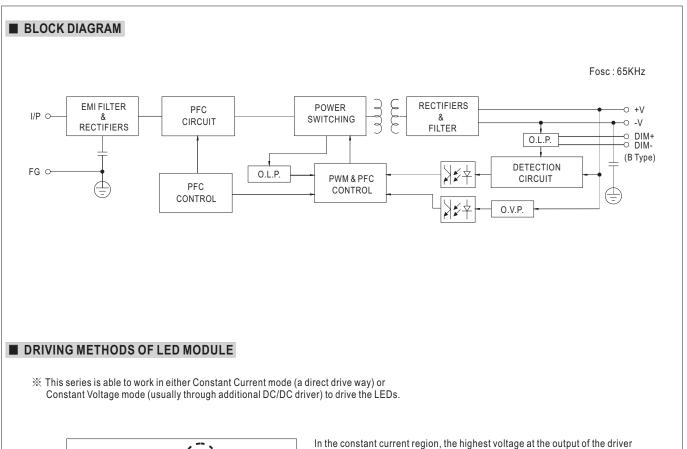
#### SPECIFICATION

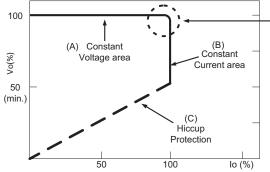
MODEL		HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.4	6~12V	7.5 ~ 15V	10 ~ 20V	12~24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V	
	RATED CURRENT	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A	
OUTPUT	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	
							200111111	20000000	Loomtpp		
	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									
0011 01		Adjustable fo	r A/AB/C-Type	only (via built	t-in potentiom	eter)					
	CURRENT ADJ. RANGE	11~22A	9.5 ~ 19A	7.5 ~ 15A	6.67 ~ 13.34A	5.35 ~ 10.7A	4.45~8.9A	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	±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%	$\pm 0.5\%$	
						= 0.070	_ 0.070				
	HOLD UP TIME (Typ.)	5 2500ms,80ms/115VAC 500ms,80ms/230VAC									
		15ms / 115VAC, 230VAC									
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)									
			IO STATIC CH								
	FREQUENCY RANGE47 ~ 63Hz										
	POWER FACTOR (Typ.)	PF≧0.98/115	SVAC, PF≧0.9	5/230VAC, PF	≥0.94/277VA	C @ full load					
		(Please refer	to "POWER FA	CTOR (PF) CH	IARACTERISTI	C" section)					
		THD< 20% ((	@load≧50%	/ 115VAC,230	VAC; @ load≧	≧75% / 277VA	C)				
INDUT	TOTAL HARMONIC DISTORTION	(Please refe	r to "TOTAL HA	ARMONIC 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			1.45A / 277VA	1		_ · · · •			
	INRUSH CURRENT(Typ.)					230VAC; Per N	JEMA 410				
	MAX. No. of PSUs on 16A	JULU UTART	. or (twidui=101	ope measured	at oo /o ipeak) al						
	CIRCUIT BREAKER	1 unit (circuit	breaker of type	e B) / 2 units (c	circuit breaker o	of type C) at 23	0VAC				
	LEAKAGE CURRENT	<0.75mA/27	7VAC								
	OVER CURRENT Note.4	95 ~ 108%									
						It condition is re	emoved				
PROTECTION	SHORT CIRCUIT	Hiccup mode	recovers auto		fault condition	is removed					
TROTECTION		14 ~ 17V	17.5~21V	22.5 ~ 27V	27 ~ 33V	33 ~ 37V	40 ~ 46V	46.5 ~ 53V	53.5~60V	59~65V	
	OVER VOLTAGE	Shut down an	d latch off o/p	voltage, re-pov	ver on to recov	er					
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover									
	WORKING TEMP.	Tcase= -40 ~	+90°C (Pleas	e refer to "OU"	TPUT LOAD v	S TEMPERATU	JRE" section)				
	MAX. CASE TEMP.	Tcase= -40 ~ +90 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) Tcase= +90 °C									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C									
			· /	In a subset from t	70						
	VIBRATION					ong X, Y, Z axe					
	SAFETY STANDARDS	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; 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-typ 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									
SAFETY &	ISOLATION RESISTANCE										
EMC					)0VDC / 25°C/ N55032 (CISPF		S EN/EN6100	0-3-2 Class C	(@ load≧50%	);	
	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									
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020								unity	
	MTBF	1702.2K hrs min. Telcordia SR-332 (Bellcore); 157.2K hrs min. MIL-HDBK-217F (25℃)									
OTHERS	DIMENSION	252*90*43.8r	nm (L*W*H)								
	PACKING	1.88Kg; 8pcs/	/16Kg/0.92CUF	T							
NOTE	PACKING 1.88Kg; 8pcs/16Kg/0.92CUFT   1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.   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(6500ff 12. For any application note and IP water proof function installation caution, please refer our user manual before usi										



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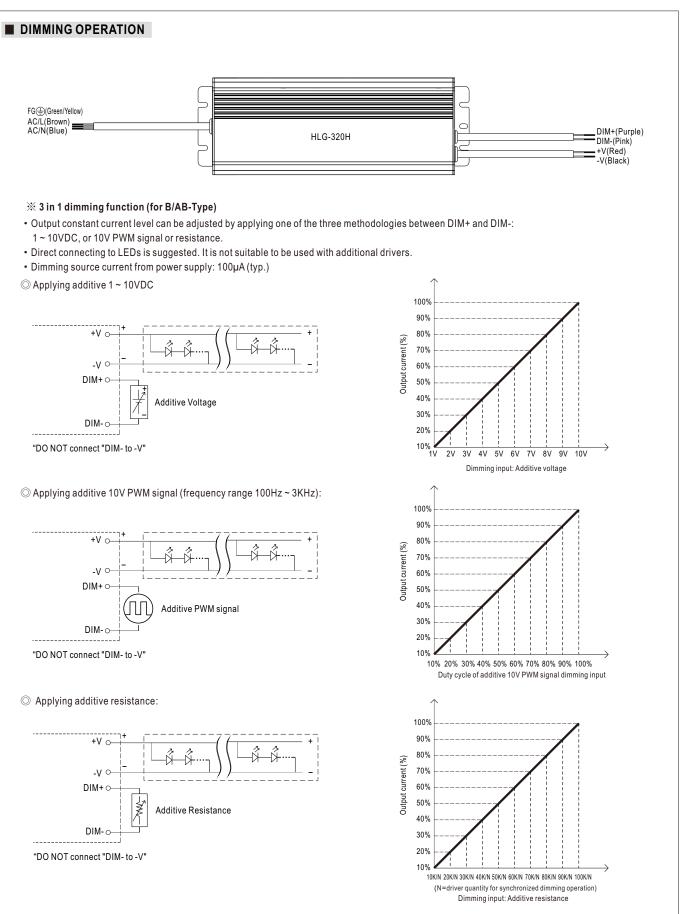
Typical output current normalized by rated current (%)

depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.



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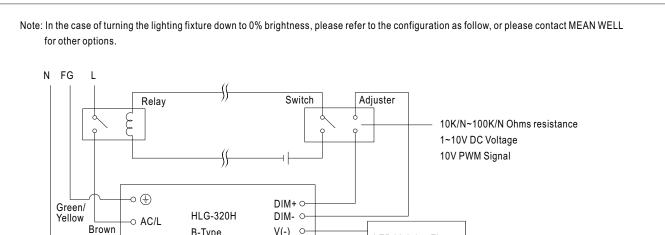


#### STEPPER 0



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## HLG-320H series



LED Lighting Fixture

V(-) ∽

V(+) ↔

Using a switch and relay can turn ON/OFF the lighting fixture.

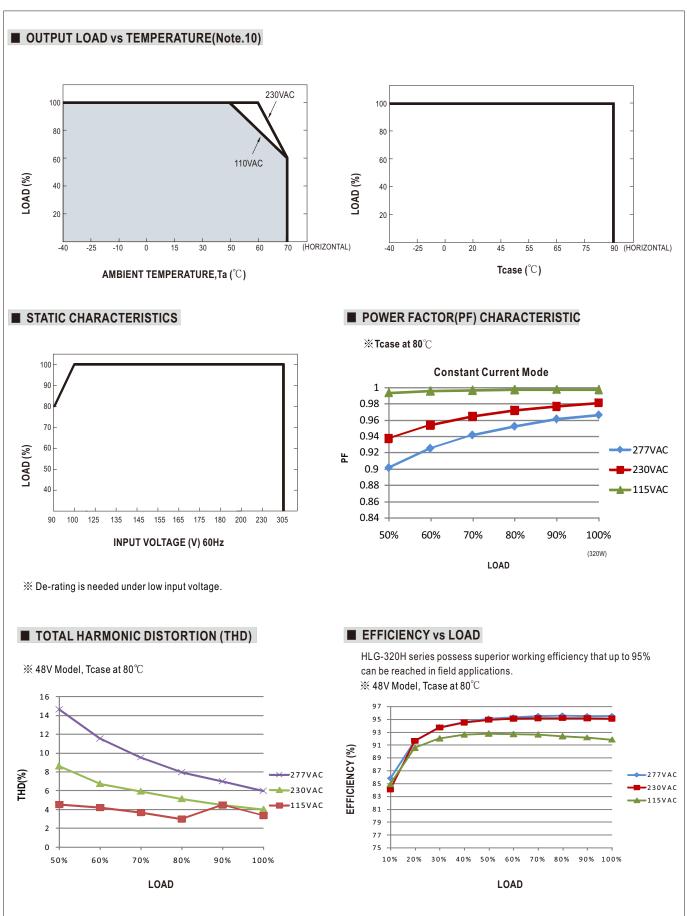
-o AC/N

Blue

B-Type



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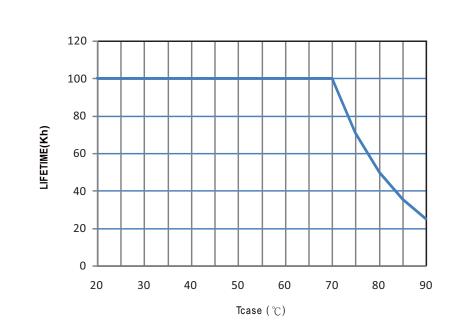






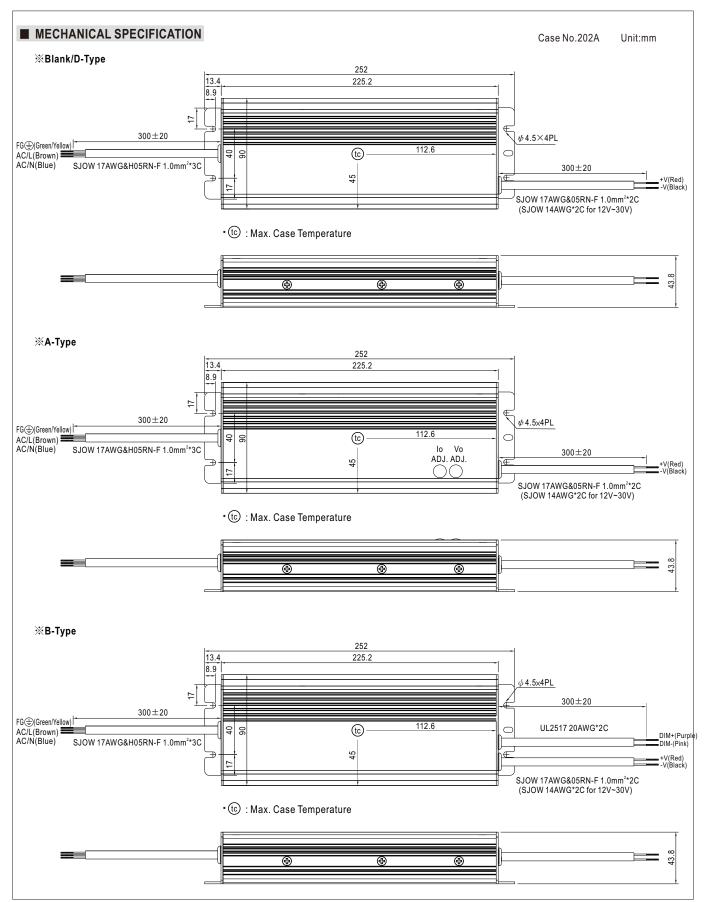
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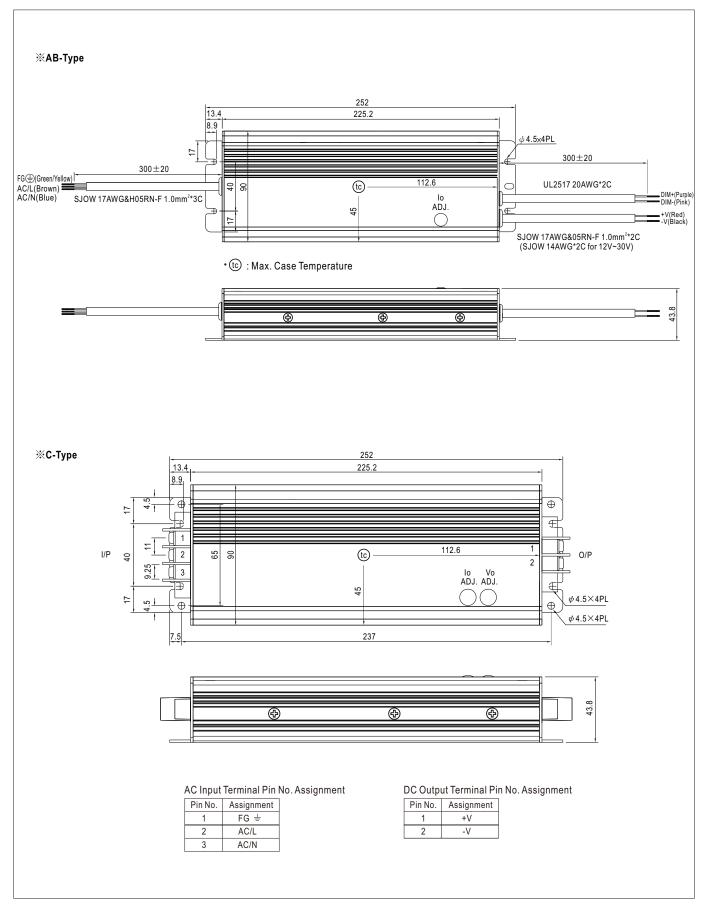
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320W Constant Voltage + Constant Current LED Driver

## HLG-320H series

#### WATERPROOF CONNECTION

#### $\% \ {\rm Waterproof} \ {\rm connector}$

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

