









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

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.

M M SELV IP65 IP67 🕞

GTIN CODE

MW Search: <u>https://www.meanwell.com/serviceGTIN.aspx</u>

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

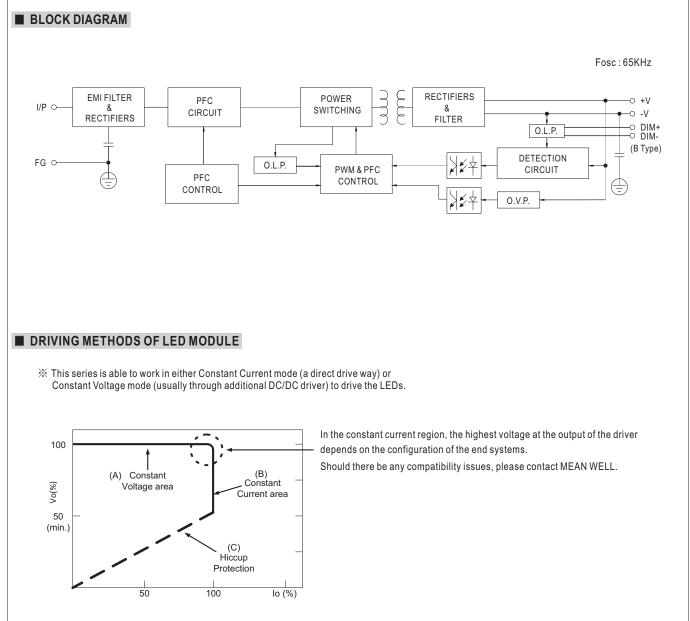
Туре	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 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



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		
OUTPUT	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 P	200111000	20011vp-p	000111vp-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 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%	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	±0.5%	$\pm 0.5\%$		
						1 - 0.0 %			- 0.0 /0	- 0.0 /0		
		2 2500ms,80ms/115VAC 500ms,80ms/230VAC 15ms / 115VAC, 230VAC										
	HOLD UP TIME (Typ.)		· · · · · · · · · · · · · · · · · · ·									
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC										
	(Please refer to "STATIC CHARACTERISTIC" section)											
	FREQUENCY RANGE 47 ~ 63Hz											
		PF≧0.98/115	VAC, PF≧0.9	5/230VAC, PF	≥0.94/277VA	C @ full load						
	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)										
				. ,		≥75% / 277VA	C)					
	TOTAL HARMONIC DISTORTION		0		TORTION (TH		- /					
INPUT					· · ·	, , ,	04 E%	0.5%	0.5%	0.5%		
	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 / 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 CIRCUIT BREAKER	AX. No. of PSUs on 16A										
	LEAKAGE CURRENT	<0.75mA/27	7VAC									
		95 ~ 108%										
	OVER CURRENT Note.4	Constant curr	ent limiting re	covers automa	tically after fau	It condition is re	emoved					
	SHORT CIRCUIT				fault condition							
PROTECTION	SHORT CIRCOIT	14 ~ 17V	17.5 ~ 21V	22.5 ~ 27V	27 ~ 33V	33 ~ 37V	40~46V	46.5~53V	53.5~60V	59~65V		
	OVER VOLTAGE						40~40V	40.5 ~ 55V	55.5~600	59~05V		
				0,1	ver on to recov							
	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= +90°C											
	WORKING HUMIDITY	20 ~ 95% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY -40 ~ +80°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT											
		± 0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
	VIBRATION		,					0/1170 01017	0.40			
	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-type), EAC TP TC 004;KC61347-1,KC61347-2-13(except for AB,C-type) approved										
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SAFETY &	WITHSTAND VOLTAGE				/P-FG:1.5KVA							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-F	G, O/P-FG:10	00M Ohms / 50	0VDC/25°C/	70% RH						
EMC	EMC EMISSION				N55032 (CISPF 325.1,EAC TP 1	R32) Class B, B TC 020	S EN/EN6100	0-3-2 Class C	(@ load≧50%);		
	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			,, 101.2			()				
			16Kg/0.92CUF	т								
	PACKING	0.1	•		ut rotad	at and OF°C (ambient to	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 (c) 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(650) 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 thttps://www.meanwell.com/serviceDisclaimer.aspx 											

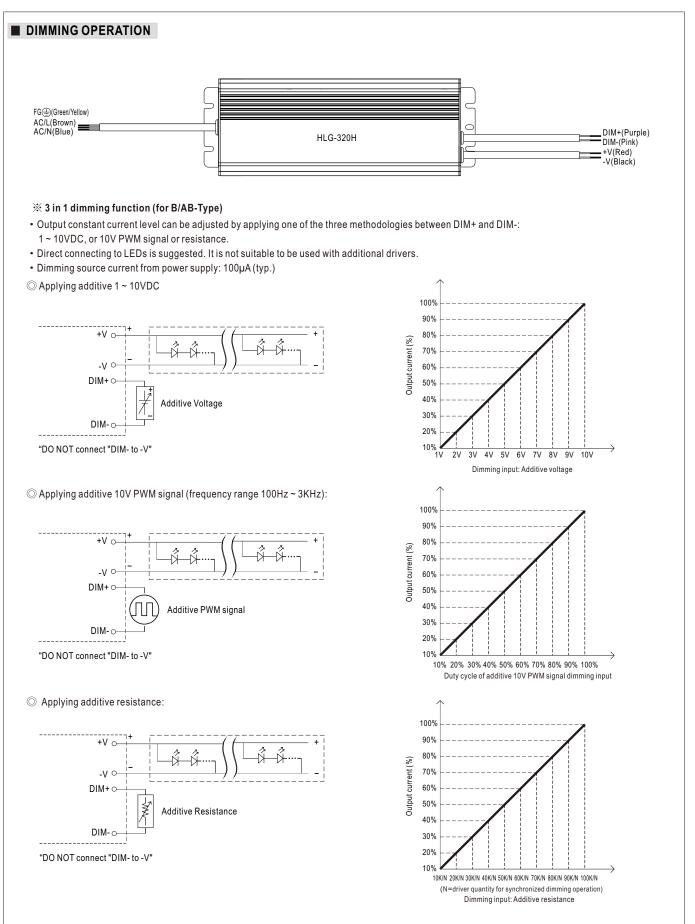




Typical output current normalized by rated current (%)



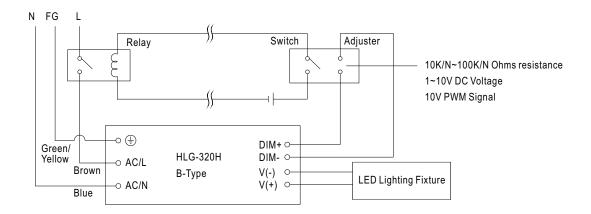
HLG-320H series





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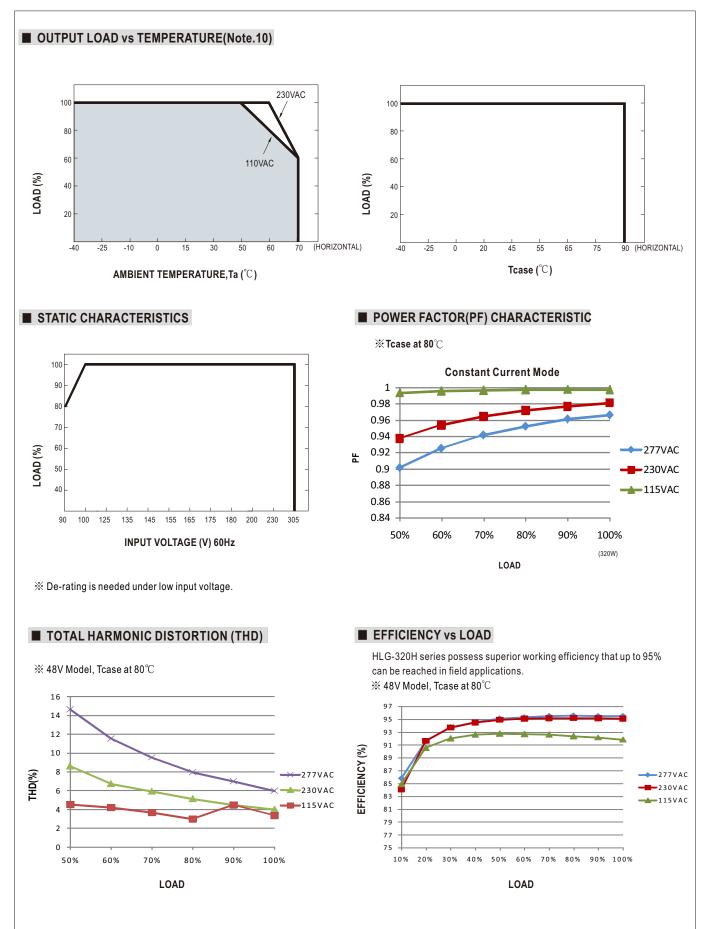
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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



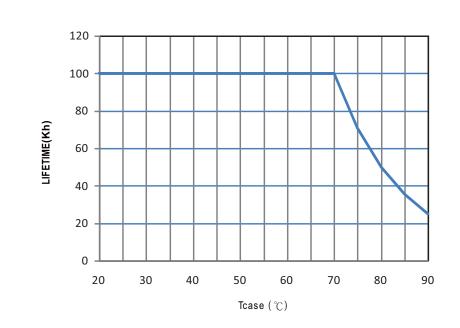
HLG-320H series



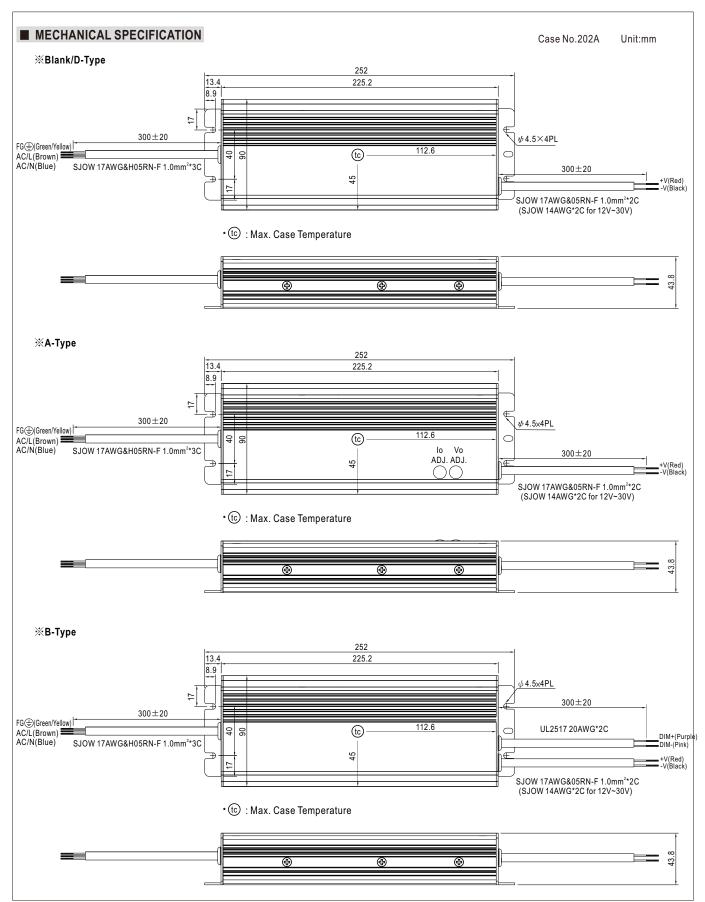


HLG-320H series

■ LIFETIME



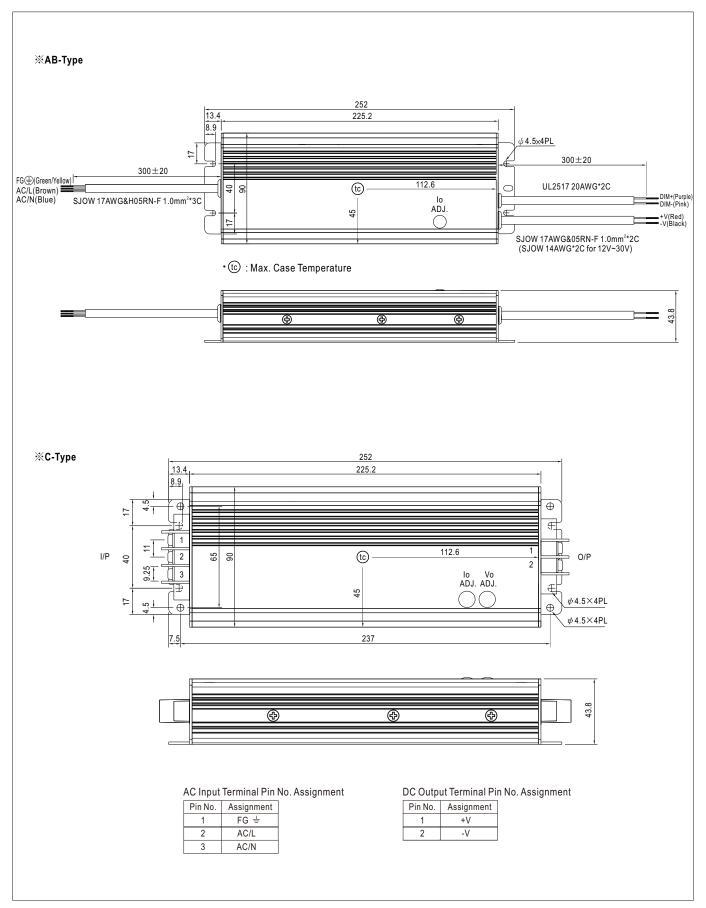




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HLG-320H series

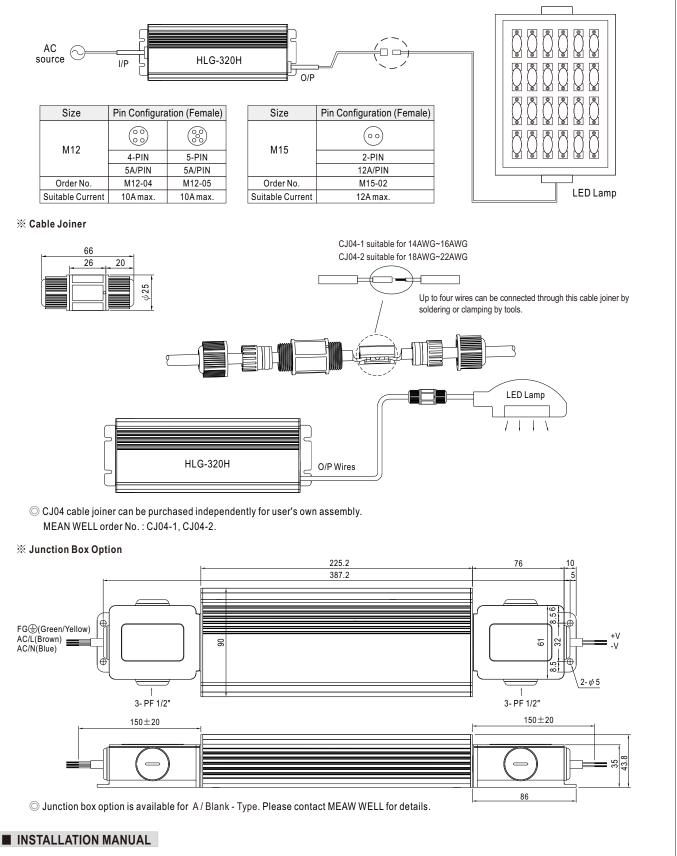




WATERPROOF CONNECTION

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

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