











■ 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

■ 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.

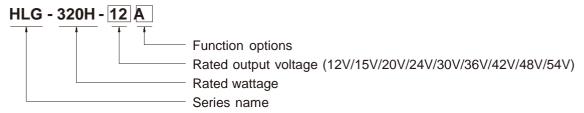
■ GTIN CODE

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

HLG-320H-12A 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°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-12A is equipped with various function options, such as dimming methodologies, so as to provide the optimal design

■ Model Encoding

flexibility for LED lighting system.



Type	IP Level	Function	Note
Blank	IP67	lo and Vo fixed	In Stock
Α	IP65	lo 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	lo adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
С		Terminal block for I/ connection. utput 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



320W Constant Voltage + Constant Current LED Driver

HLG-320H-12A

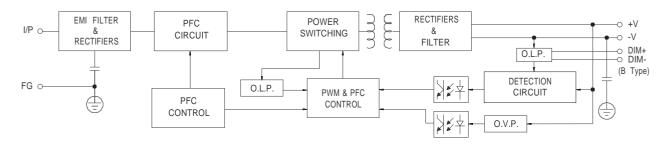
SPECIFICATION

CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 //OLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) //OLTAGE RANGE REQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT NRUSH CURRENT(Typ.) MAX. No. of PSUs on 16ACIRCUIT BREAKER LEAKAGE CURRENT	15ms / 115VAC, 230VAC Constant current limiting, recovers automatically after fault condition is removed 47 ~ 63Hz 91% 3.5A / 115VAC 1.65A / 230VAC 1.45A / 277VAC COLD START 75A(twidth=700µs measured at 50% lpeak) at 230VAC 1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC	
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BREAKER LEAKAGE CURRENT	, , , , , , , , , , , , , , , , , , , ,	
	0.754 / 0.771/40	
	<0.75mA / 277VAC	
	95 ~ 108%	
DVERLOAD	Constant current limiting, recovers automatically after fault condition is removed	
OVER VOLTAGE	14 ~ 17V	
OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover	
NORKING TEMP.	-40 ~ +90°C (Refer to "Derating Curve")	
WORKING HUMIDITY	20 ~ 90% RH non-condensing	
STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH	
TEMP. COEFFICIENT	±0.03%°C (0 ~ 50°C)	
/IBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY STANDARDS	UL8750,CSA C22.2 No 250.13-12,UL879,CSA C22.2 No.207-M89,BIS IS15885(Note12), EAC TP TC 004,IP67, IEC62368-1, BS EN/EN62368-1 approved	
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC	
SOLATION RESISTANCE		
	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH	
	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,GB/T 17743 , 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 Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020 4497.1K hrs min. Telcordia SR-332 681.6Khrs min. MII -HDRK-217F (25°C)	
WIDF	4497.1K nrs min. Telcordia SR-332 681.6Knrs min. MIL-HDBK-217F (25°C) (Bellcore) ;	
DIMENSION	244.2*68*38.8mm (L*W*H)(HLG-240H-Blank/A/B) 251*68*38.8mm (L*W*H)(HLG-240H C-Type)	
PACKING	1.3Kg; 12pcs/16.6Kg/0.84CUFT(HLG-240-Blank/A/B) 1.23Kg; 12pcs/15.8Kg/1.16CUFT(HLG-240 C-Type)	
 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 thecomplete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 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(6500ft). 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 		
	OVER VOLTAGE VORKING TEMP. VORKING HUMIDITY TORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS VITHSTAND VOLTAGE SOLATION RESISTANCE MC EMISSION MC IMMUNITY ATBF OMENSION ACKING 1. All parameters NOT specially mentically specially specially mentically specially specially mentically specially specially mentically specially s	



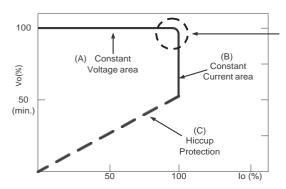
■ BLOCK DIAGRAM

Fosc: 65KHz



■ DRIVING METHODS OF LED MODULE

* This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



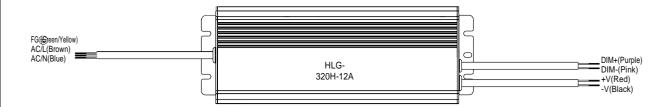
Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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

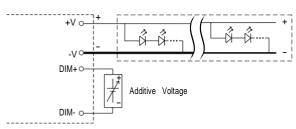


■ DIMMING **OPERATION**



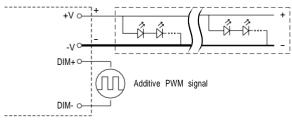
※ 3 in 1 dimming function (for B/AB-Type)

- · Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 1 ~ 10VDC, or 10V PWM signal or resistance.
- · Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 1 ~ 10VDC



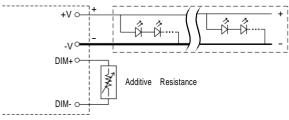
'DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

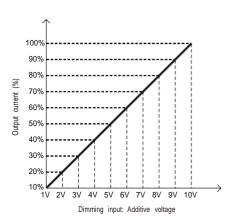


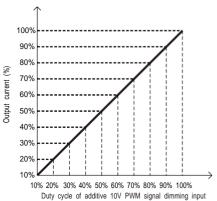
'DO NOT connect "DIM- to -V"

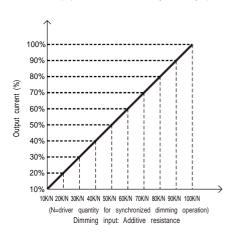
Applying additive resistance:



'DO NOT connect "DIM- to -V"

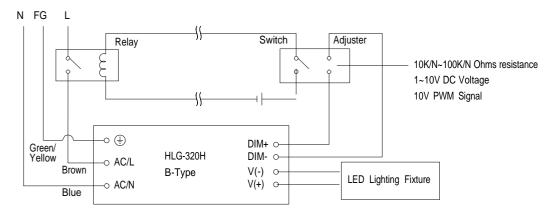






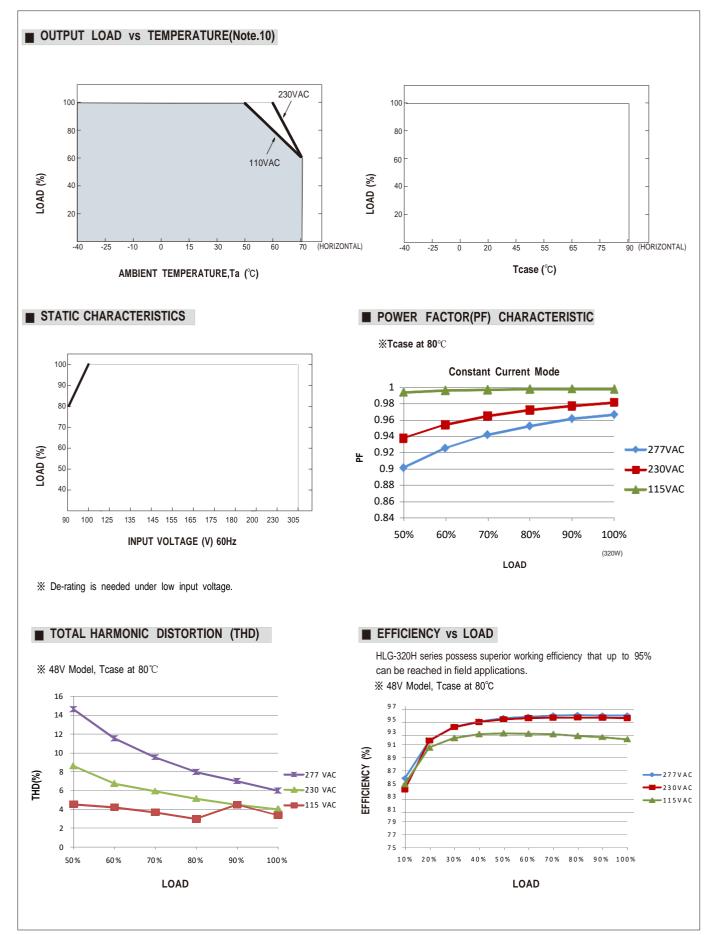
HLG-320H-12A

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.



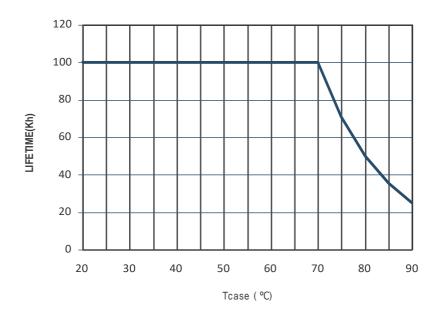
Using a switch and relay can turn ON/OFF the lighting fixture.



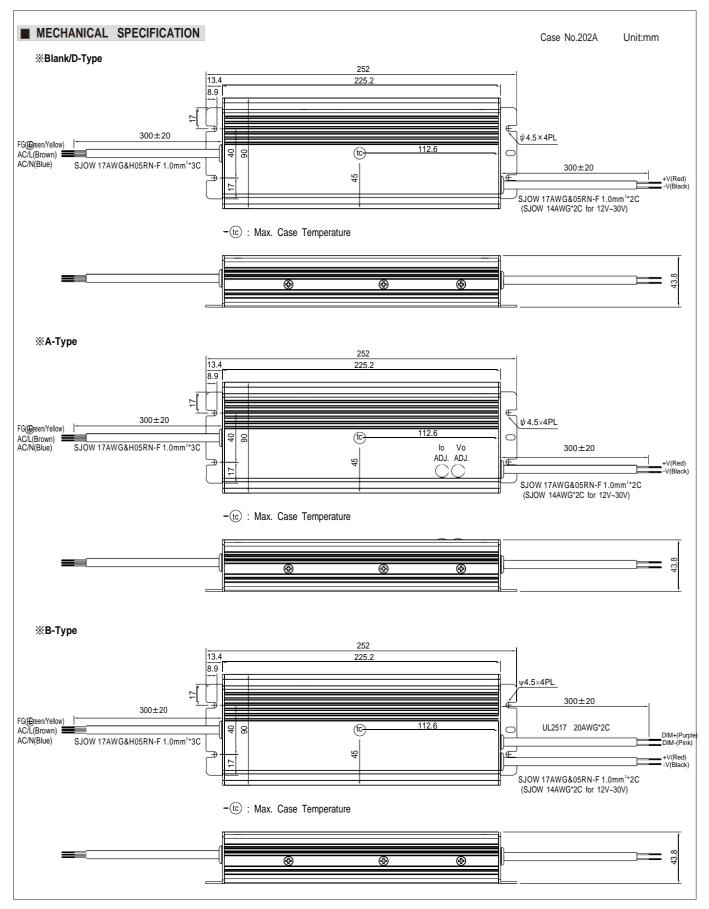




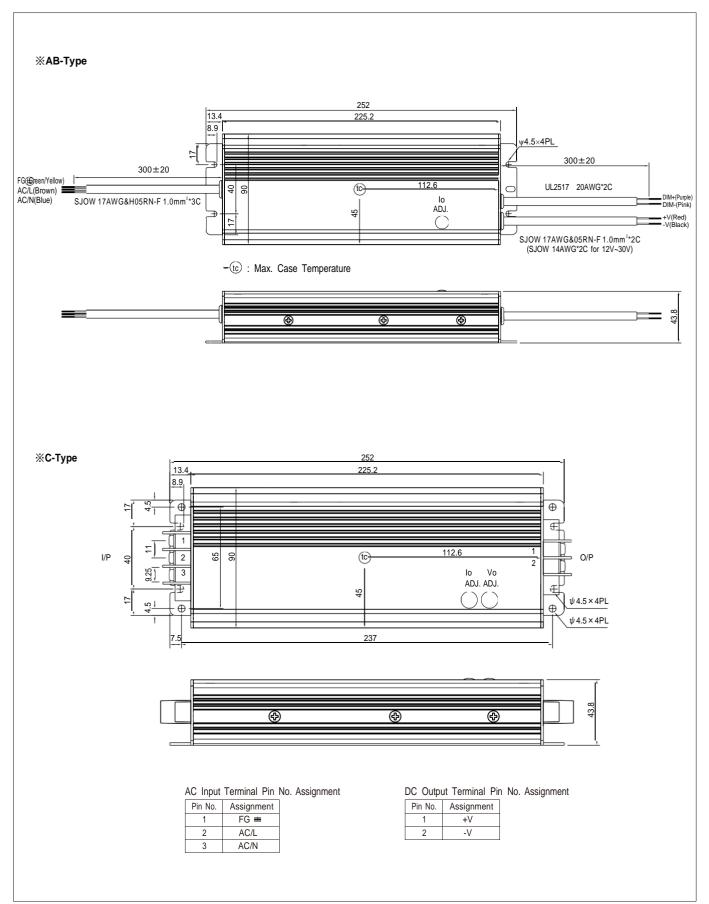
■ LIFE TIME



HLG-320H-12A









WATERPROOF CONNECTION

