





Features

- · Constant Current mode output
- · Metal housing with Class I design
- · Built-in active PFC function
- IP67 / IP65 design for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
 3 in 1 dimming
- Typical lifetime>62000 hours
- 7 years warranty

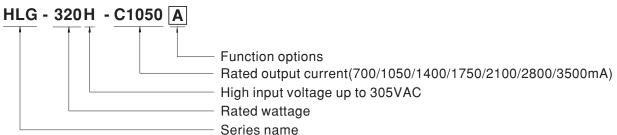
Applications

- · LED street lighting
- · LED fishing lamp
- · LED harbor lighting
- LED building architectural lighting
- · LED greenhouse lighting
- LED bay lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

Description

HLG-320H-C series is a 320W LED AC/DC LED power supply featuring the constant current mode and high voltage output. HLG-320H-C operates from $90\sim305$ VAC and offers models with different rated current ranging between 700mA and 3500mA. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for -40° C $\sim +85^{\circ}$ 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-C 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
Α	IP65	lo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock



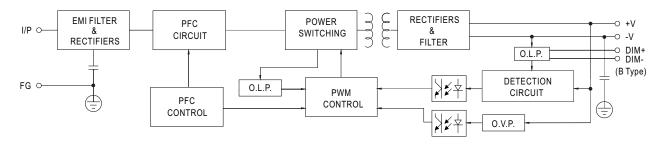
SPECIFICATION

MODEL		HLG-320H-C700	HLG-320H-C1050	HLG-320H-C1400	HLG-320H-C1750	HLG-320H-C2100	HLG-320H-C2800	HLG-320H-C3500	
RATED CURRENT		700mA	1050mA	1400mA	1750mA	2100mA	2800mA	3500mA	
ОИТРИТ	RATED POWER	299.6W	320.25W	320.6W	320.25W	319.2W	319.2W	318.5W	
	CONSTANT CURRENT REGION Note.2	214 ~ 428V	152 ~ 305V	114 ~ 229V	91 ~ 183V	76 ~ 152V	57 ~ 114V	46 ~ 91V	
	OPEN CIRCUIT VOLTAGE (max.)		311V	234V	187V	156V	118V	95V	
	()	Adjustable for A-Type only (via built-in potentiometer)							
	CURRENT ADJ. RANGE	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA	875 ~ 1750mA	1050 ~ 2100mA	1400 ~ 2800mA	1750 ~ 3500mA	
	CURRENT RIPPLE	5.0% max. @rate		700 110011111	070 170011111	1000 210011111	1100 200011111	1700 00001117	
	CURRENT TOLERANCE	±5%							
	SET UP TIME Note.4								
	OZI OI TIMZ	90 ~ 305VAC 127 ~ 431VDC							
	VOLTAGE RANGE Note.3	(Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz							
INPUT	POWER FACTOR (Typ.)	PF≥0.98/115VAC or PF≥0.95/230VAC or PF≥0.92/2777VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
	TOTAL HARMONIC DISTORTION	THD< 20%@≥50% load/115VAC, or 230VAC, or @≥70% load/277VAC (Please refer to "TOTAL HARMONIC DISTORTION" section)							
	EFFICIENCY (Typ.)	94%	94%	94%	94%	94%	94%	94%	
	AC CURRENT (Typ.)	3.5A / 115VAC	1.65A / 230VAC	1.45A / 277V	AC				
	INRUSH CURRENT(Typ.)	COLD START 70A(twidth=1200µs measured at 50% Ipeak) at 230VAC; Per NEMA 410							
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC							
	LEAKAGE CURRENT	<0.75mA/277VAC							
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed							
PROTECTION		436 ~ 460V	320 ~ 352V	235 ~ 252V	192 ~ 211V	160 ~ 175V	120 ~ 132V	96 ~ 105V	
	OVER VOLTAGE	Shut down and la	tch off o/p voltage,	re-power on to reco	ver	1	1	1	
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover							
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD VS TEMPERATURE" section)							
ENVIRONMENT	MAX. CASE TEMP.	Tcase=+85°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)							
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	SAFETY STANDARDS Note.5								
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC							
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, EN61000-3-2 Class C (≥50% load); EN61000-3-3							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)							
	MTBF	168.2K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	252*90*43.8mm (L*W*H)							
	PACKING	1.88Kg; 8pcs/16Kg/0.92CUFT							
NOTE	All parameters NOT special Please refer to "DRIVING N	lly mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. METHODS OF LED MODULE".							
	 De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTICS" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. The power supply 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 power supply 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 								



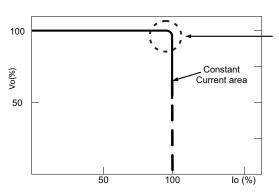
■ BLOCK DIAGRAM

Fosc(PFC): 45KHz Fosc(PWM): 70KHz



■ DRIVING METHODS OF LED MODULE

※ This series works in constant current mode to directly drive the LEDs.

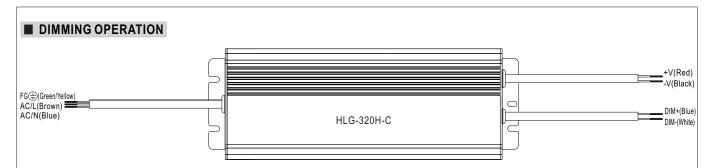


Typical output current normalized by rated current (%)

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

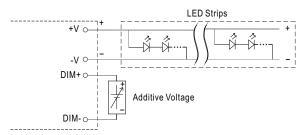
Should there be any compatibility issues, please contact MEAN WELL.





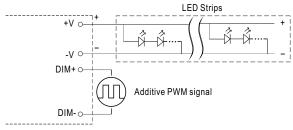
※ 3 in 1 dimming function (for B-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 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: $100\mu A$ (typ.)
- O Applying additive 0 ~ 10VDC



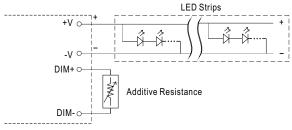
"DO NOT connect "DIM- to -V"

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

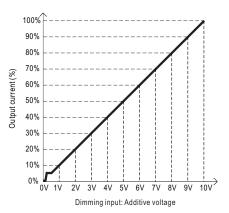


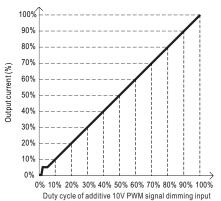
"DO NOT connect "DIM- to -V"

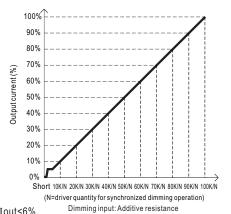
Applying additive resistance:



"DO NOT connect "DIM- to -V"



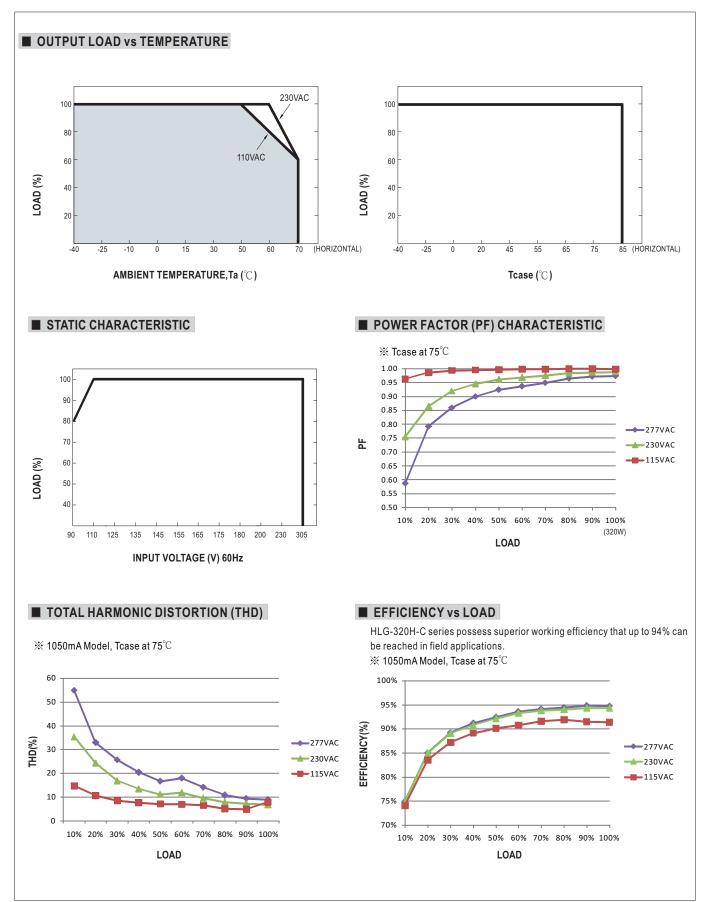




Note: 1. Min. dimming level is about 6% and the output current is not defined when 0%< Iout<6%.

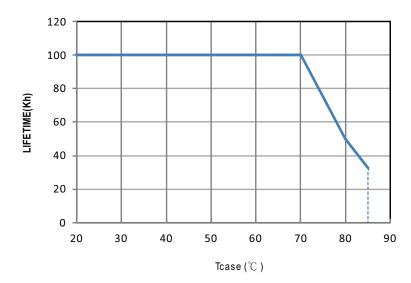
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.







■ LIFE TIME



HLG-320H-C series

