

Наличие и актуальные цены на

# HLG-320H-C1400B

https://www.mean-well.ru/store/HLG-320H-C1400B/









## **■** 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

Description

# Applications

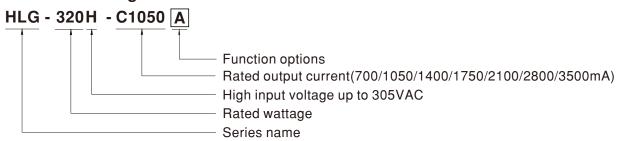
- LED street lighting
- LED fishing lamp
- · LED harbor lighting
- · LED building architectural lighting
- LED greenhouse lighting
- · LED bay lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

#### **■** GTIN CODE

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

HLG-320H-C series is a 320W LED AC/DC LED driver featuring the constant current mode and high voltage output. HLG-320H-C operates from 90~305VAC 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°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
DA	IP67	DALI control technology.	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock

## 320W Constant Current Mode LED Driver

#### **SPECIFICATION**

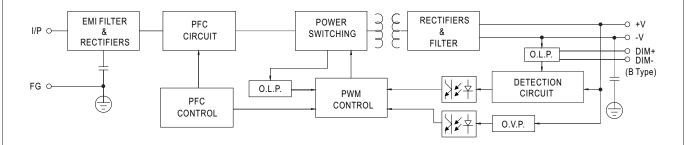
MODEL		HLG-320H-C700	HLG-320H-C1050	HLG-320H-C1400	HLG-320H-C1750	HLG-320H-C2100	HLG-320H-C2800	HLG-320H-C3500	
WODEL		_							
	RATED CURRENT	700mA	1050mA	1400mA	1750mA	2100mA	2800mA	3500mA	
	RATED POWER	299.6W	320.25W	320.6W	320.25W	319.2W	319.2W	318.5W	
	CONSTANT CURRENT REGION Note.2	214 ~ 428V	152 ~ 305V	114 ~ 229V	91 ~ 183V	76 ~ 152V	57 ~ 114V	46 ~ 91V	
	OPEN CIRCUIT VOLTAGE (max.)	435V	311V	234V	187V	156V	118V	95V	
OUTPUT	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via built-in potentiometer)							
	CURRENT RIPRI F	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA	875 ~ 1750mA	1050 ~ 2100mA	1400 ~ 2800mA	1750 ~ 3500m	
	CURRENT RIPPLE	5.0% max. @rated current ±5%							
	CURRENT TOLERANCE								
	SET UP TIME Note.4	1000ms/115VAC, or 500ms/230VAC							
	VOLTAGE RANGE Note.3	90 ~ 305VAC	127~417VDC STATIC CHARACTE	FRISTIC" section)					
	FREQUENCY RANGE	(Please refer to "STATIC CHARACTERISTIC" section)  47 ~ 63Hz							
		$PF \ge 0.98/115VAC$ , $PF \ge 0.95/230VAC$ , $PF \ge 0.92/277VAC$ @full load							
	POWER FACTOR (Typ.)			PF) CHARACTERIS	•				
	TOTAL HARMONIC DISTORTION	THD< 20% (@ los	ad≧50% /115VAC	C, 230VAC; @ load	≥70%/277VAC)				
NPUT		(Please refer to "	TOTAL HARMONI	C DISTORTION (T		I			
	EFFICIENCY (Typ.)	94%	94%	94%	94%	94%	94%	94%	
	AC CURRENT (Typ.)	3.5A / 115VAC	1.65A / 230VAC						
	INRUSH CURRENT(Typ.)	COLD START 70A	A(twidth=1200µs mea	asured at 50% Ipeak)	at 230VAC; Per NE	MA 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 a	utomatically after f	ault condition is ren	noved			
DOTECTION		436 ~ 460V	320 ~ 352V	235 ~ 252V	192 ~ 211V	160 ~ 175V	120 ~ 132V	96 ~ 105V	
ROTECTION	OVER VOLTAGE	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							
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)							
	MAX. CASE TEMP.	Tcase=+85°C							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
NVIRONMENT	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	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent;							
	DALI STANDARDS	GB19510.1,GB19510.14,EAC TP TC 004, IP65 or IP67 approved   Compliance to IEC62386-101,102,(207 by request) for DA Type only							
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC							
AFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
EMC	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load ≥ 50%); BS EN/EN61000-3-3,GB/T 17743 ,							
	EMC IMMUNITY	GB17625.1,EAC TP TC 020  Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV),							
	MTBF	EAC TP TC 020  1947 6K hrs min							
071155	DIMENSION	1847.6K hrs min. Telcordia SR-332 (Bellcore); 182.3K hrs min. MIL-HDBK-217F (25°C)							
THERE	LUMENSIUM	252*90*43.8mm (L*W*H)  1.88Kg; 8pcs/16Kg/0.92CUFT							
OTHERS	PACKING	1 88Kg: 9pos/16K	(a/0.02CLIET						

- 2. Please refer to "DRIVING METHODS OF LED MODULE".
- 3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 4. 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.
- 5. 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.

  (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 6. 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.
- 7. 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.
- 8. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 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
- 11. For A/AB type need to consider build in using to comply with Type HL application.
- % Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

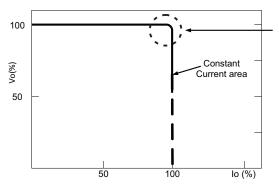
## ■ BLOCK DIAGRAM

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



### **■** DRIVING METHODS OF LED MODULE

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

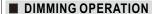


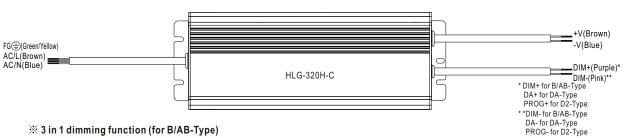
Typical output current normalized by rated current (%)

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

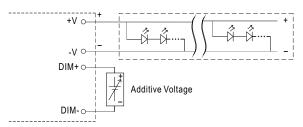
Should there be any compatibility issues, please contact MEAN WELL.





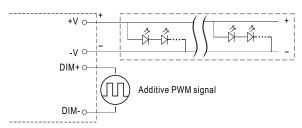


- · Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



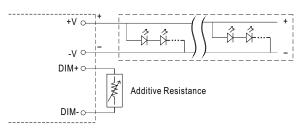
"DO NOT connect "DIM- to -V"

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

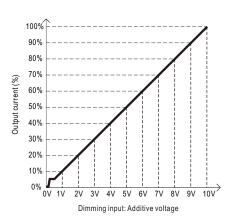


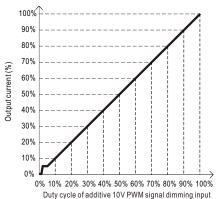
"DO NOT connect "DIM- to -V"

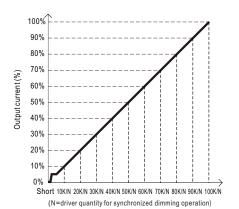
Applying additive resistance:



"DO NOT connect "DIM- to -V"







Dimming input: Additive resistance 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.

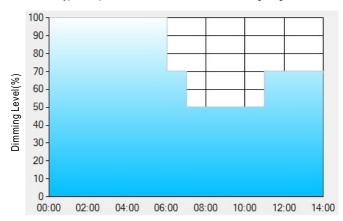
#### ※ DALI Interface (primary side; for DA-Type)

- · Apply DALI signal between DA+ and DA-.
- · DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output. Please contact MEAN WELL for other setup.

#### **X** Smart timer dimming function (for Dxx-Type by User definition)

MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level to perform up to 14 consecutive hours. 3 dimming profiles hereunder are defined accounting for the most frequently seen applications. If other options may be needed, please contact MEAN WELL for details.

Ex: O D01-Type: the profile recommended for residential lighting



Set up for D01-Type in Smart timer dimming software program:

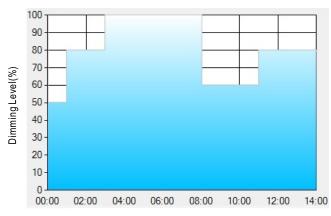
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

Operating Time(HH:MM)

- \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

  Example: If a residential lighting application adopts D01-Type, when turning on the power supply at 6:00pm, for instance:
- [1] The power supply will switch to the constant current level at 100% starting from 6:00pm.
- [2] The power supply will switch to the constant current level at 70% in turn, starting from 0:00am, which is 06:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 50% in turn, starting from 1:00am, which is 07:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 8:00am, which is 14:00 after the power supply turns on.

Ex: O D02-Type: the profile recommended for street lighting



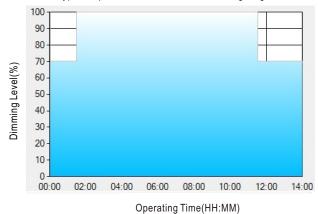
Set up for D02-Type in Smart timer dimming software program:

	T1	T2	Т3	T4	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

#### Operating Time(HH:MM)

- \*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.
- Example: If a street lighting application adopts D02-Type, when turning on the power supply at 5:00pm, for instance:
- [1] The power supply will switch to the constant current level at 50% starting from 5:00pm.
- [2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 100% in turn, starting from 8:00pm, which is 03:00 after the power supply turns on.
- [4] The power supply will switch to the constant current level at 60% in turn, starting from 1:00am, which is 08:00 after the power supply turns on.
- [5] The power supply will switch to the constant current level at 80% in turn, starting from 4:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.

#### Ex: O D03-Type: the profile recommended for tunnel lighting



Set up for D03-Type in Smart timer dimming software program:

	T1	T2	Т3
TIME**	01:30	11:00	
LEVEL**	70%	100%	70%

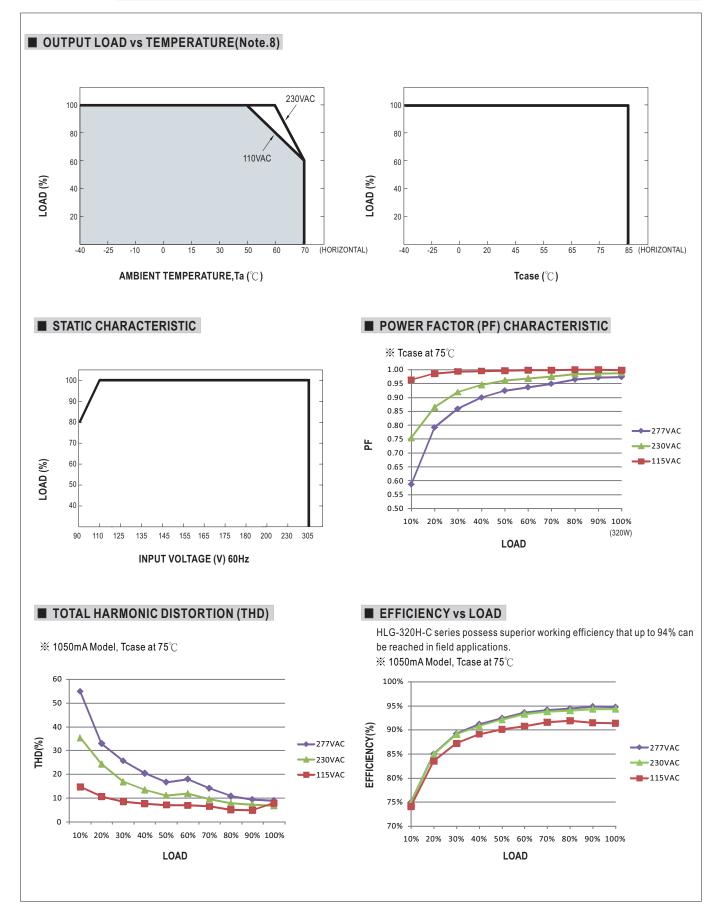
\*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

- [1] The power supply will switch to the constant current level at 70% starting from 4:30pm.
- [2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
- [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.

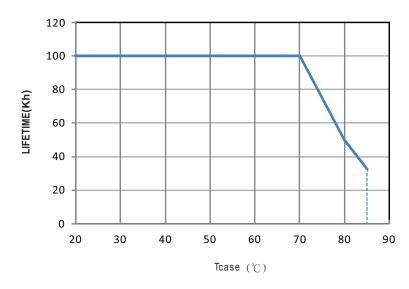
The constant current level remains till  $6:30\,\mathrm{am}$ , which is 14:00 after the power supply turns on.







## ■ LIFE TIME



# HLG-320H-C series

