





### 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; Smart timer dimming
- Typical lifetime>62000 hours
- 7 years warranty

#### Description

#### Applications

- · LED street lighting
- LED fishing lamp
- · LED harbor lighting
- · LED building architectural 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-240H-C series is a 250W LED AC/DC LED driver featuring the constant current mode and high voltage output. HLG-240H-C operates from 90~305VAC and offers models with different rated current ranging between 700mA and 2100mA. 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-240H-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

HLG - 24	40H - C1050 A	
		<ul> <li>Function options</li> <li>Rated output current(700/1050/1400/1750/2100mA)</li> <li>High input voltage up to 305VAC</li> <li>Rated wattage</li> </ul>
		- Series name

Туре	IP Level	Function	Note
A	IP65	lo 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
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	By request

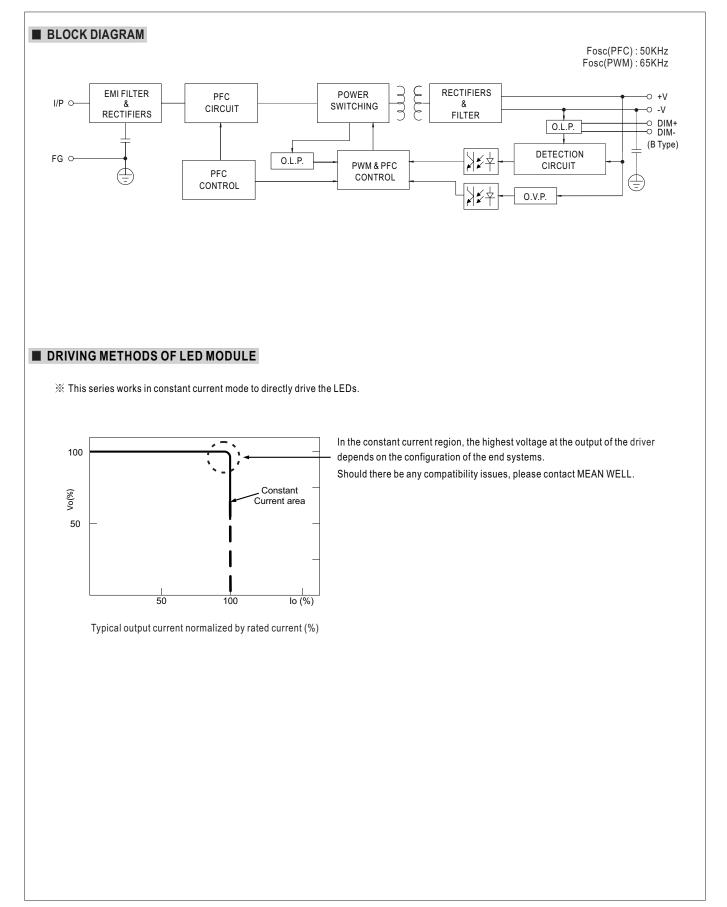
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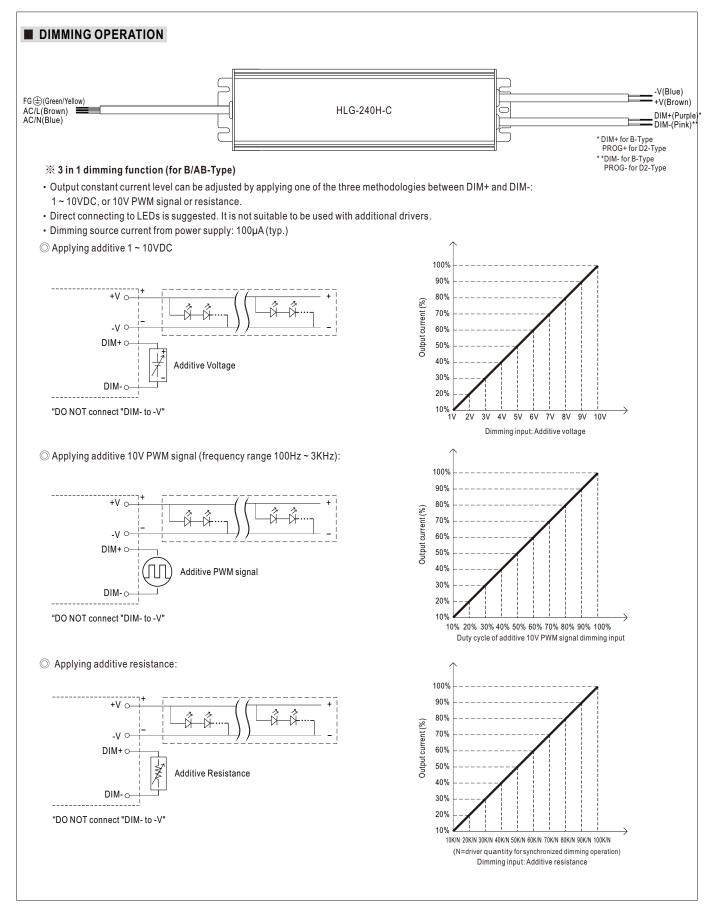
### SPECIFICATION

MODEL		HLG-240H-C700	HLG-240H-C1050	HLG-240H-C1400	HLG-240H-C1750	HLG-240H-C2100		
	RATED CURRENT	700mA	1050mA	1400mA	1750mA	2100mA		
	RATED POWER	249.9W	249.9W	250.6W	250.25W	249.9W		
	CONSTANT CURRENT REGION Note.2	178 ~ 357V	119~238V	89 ~ 179V	71 ~ 143V	59 ~ 119V		
	OPEN CIRCUIT VOLTAGE (max.)	360V	241V	182V	146V	122V		
OUTPUT		Can be adjusted by intern	al potentiometer (A/AB ty	/pe only)				
	CURRENT ADJ. RANGE	350 ~ 700mA	525 ~ 1050mA	700 ~ 1400mA	875 ~ 1750mA	1050 ~ 2100mA		
	CURRENT RIPPLE	5.0% max. @rated currer	nt					
	CURRENT TOLERANCE	±5%						
SET UP TIME         Note.4         1000ms/115VAC, or 500ms/230VAC								
	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)		$PF \ge 0.98/115VAC$ , $PF \ge 0.95/230VAC$ , $PF \ge 0.92/277VAC$ @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)					
INPUT	TOTAL HARMONIC DISTORTION	THD<20% (@ load≧50 (Please refer to "TOTAL		,				
	EFFICIENCY (Typ.)	93.5%	93.5%	94%	94%	93.5%		
	AC CURRENT (Typ.)	2.5A / 115VAC 1.3A	/ 230VAC 1.1A / 27	7VAC				
	INRUSH CURRENT(Typ.)	COLD START 75A(twidth=	700 $\mu$ s measured at 50% lp	eak) 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 a	fter fault condition is remo	ved			
PROTECTION	OVER VOLTAGE	375 ~ 410V         250 ~ 275V         188 ~ 206V         150 ~ 165V         125 ~ 137V           Shut down and latch off o/p voltage, re-power on to recover						
	OVER TEMPERATURE	Shut down o/p voltage, r	ecovers automatically a	fter temperature goes do	wn			
	WORKING TEMP.	Tcase=-40 ~ +90°C (Refer to "Derating Curve")						
	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)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1	cycle, period for 72min.	each along X, Y, Z axes				
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; BS EN/EN/AS/NZS 61347-1, BS EN/EN/AS/NZS 61347-2-13, BS EN/EN62384 independent; GB19510.1,GB19510.14; IP65 or IP67, EAC TP TC 004 approved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH						
LING	EMC EMISSION	Compliance to BS EN/EN55015, 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, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV),EAC TP TC 020						
	MTBF	2513.7K hrs min. Telcordia SR-332 (Bellcore); 228.5K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	244.2*68*38.8mm (L*W*H)						
NOTE	PACKING       1.3Kg; 12pcs/16.6Kg/0.84CUFT         1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.         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 (tc) 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.         9. 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 10. For any application note and IP water proof function installation caution, please refer our user manual before using.							





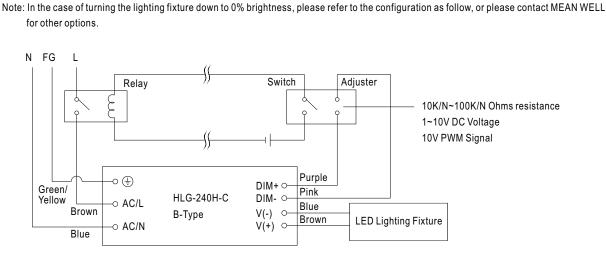






### 250W Constant Current Mode LED Driver

# HLG-240H-C series

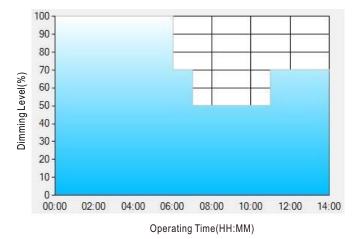


Using a switch and relay can turn ON/OFF the lighting fixture.

#### **%** 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%

\*\*: 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:

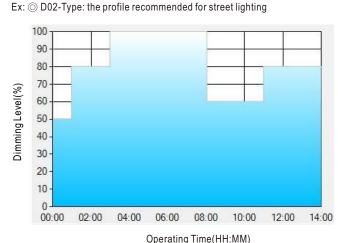
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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.



### 250W Constant Current Mode LED Driver



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

	T1	T2	Т3	T4	Т5
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:

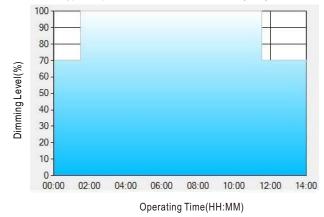
[1] The power supply will switch to the constant current level at 50% starting from 5:00pm.

[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.

 $Ex: \bigcirc D03$ -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.

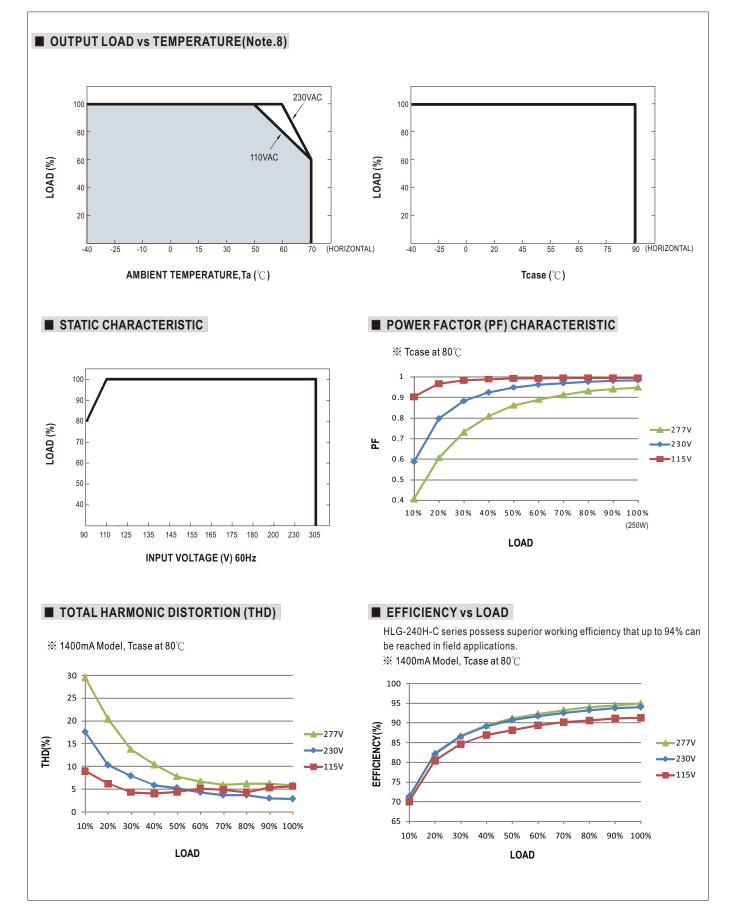
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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 6:30am, which is 14:00 after the power supply turns on.







### 250W Constant Current Mode LED Driver

LIFE TIME

