







### 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	0H - C1050 A	
		Function options Rated output current(700/1050/1400/1750/2100mA) High input voltage up to 305VAC Rated wattage Series name
		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

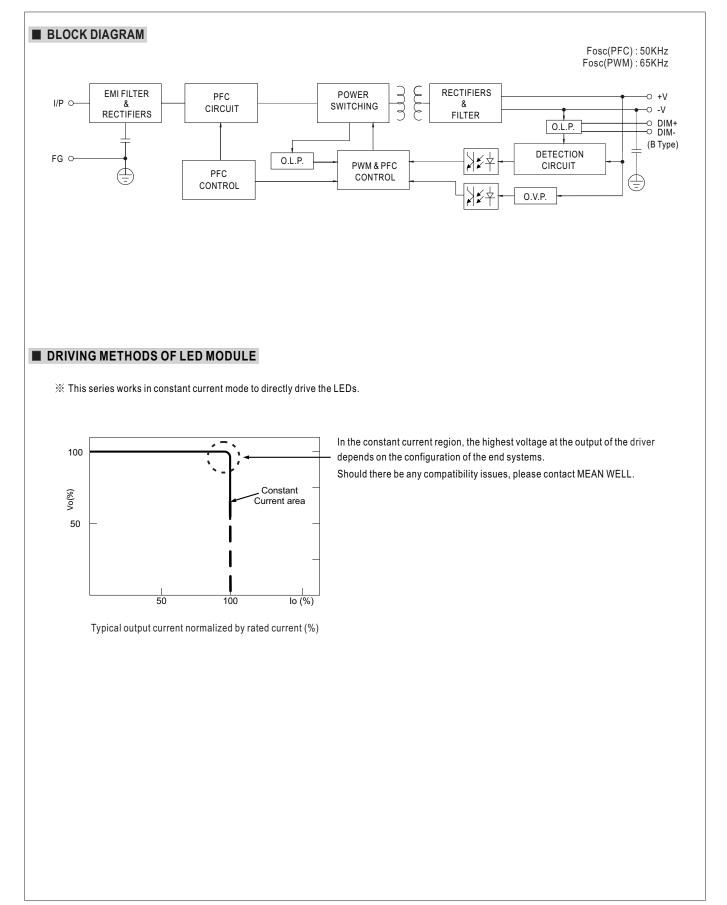
File Name:HLG-240H-C-SPEC 2024-10-11



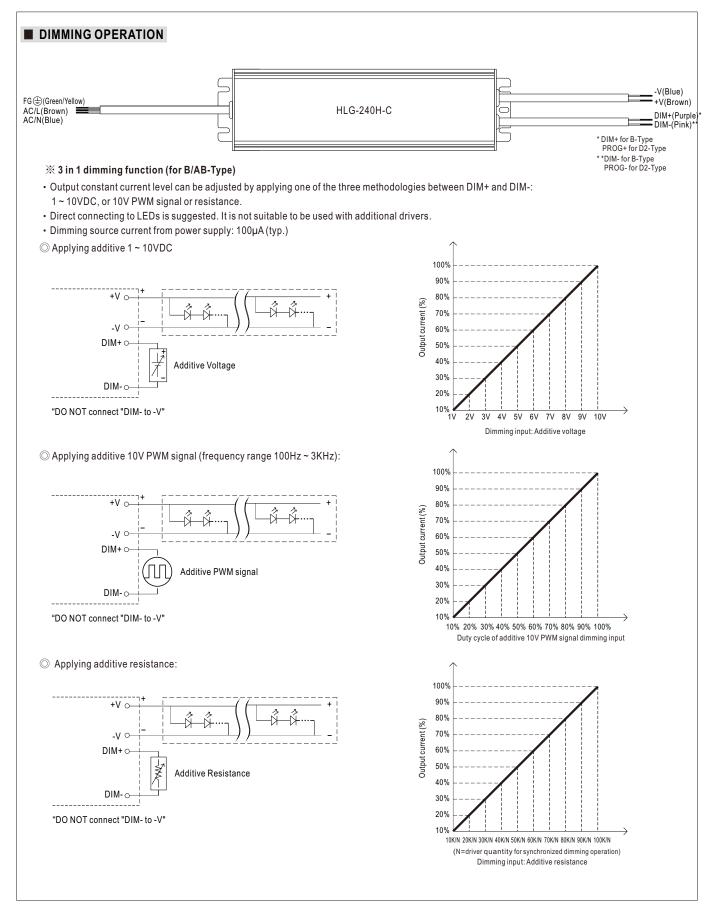
#### SPECIFICATION

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 interr	nal 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 curre	nt			L.	
	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.)	$\label{eq:PF} PF \geqq 0.98/115 \text{VAC}, PF \geqq 0.95/230 \text{VAC}, PF \geqq 0.92/277 \text{VAC} @ full load \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) \\ \end{array}$					
INPUT	TOTAL HARMONIC DISTORTION		% /115VAC, 230VAC; @ HARMONIC DISTORTIC	,			
	EFFICIENCY (Typ.)	93.5%	93.5%	94%	94%	93.5%	
	AC CURRENT (Typ.)	2.5A / 115VAC 1.3A	A/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 remov	ved		
PROTECTION	OVER VOLTAGE	375 ~ 410V Shut down and latch off o	250 ~ 275V p/p voltage, re-power on to	188 ~ 206V	150 ~ 165V	125 ~ 137V	
	OVER TEMPERATURE	Shut down o/p voltage,	recovers automatically a	fter temperature goes dov	vn		
	WORKING TEMP.	Tcase=-40 ~ +90°C (Refer to "Derating Curve")					
	MAX. CASE TEMP.	Tcase=+90°C					
		20 ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH					
	TEMP. COEFFICIENT						
	VIBRATION	$\pm 0.03\%^{\circ}C$ (0 ~ 50°C)					
	SAFETY STANDARDS	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes 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					
	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 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					
	EMC IMMUNITY	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)					
	PACKING	1.3Kg; 12pcs/16.6Kg/0.84CUFT					
NOTE	<ol> <li>All parameters NOT special</li> <li>Please refer to "DRIVING M</li> <li>De-rating may be needed u</li> <li>Length of set up time is me</li> <li>The driver is considered as complete installation, the fin (as available on https://www</li> <li>To fulfill requirements of the connected to the mains.</li> <li>This series meets the typica</li> <li>Please refer to the warranty</li> <li>The ambient temperature de</li> <li>For any application note an https://www.meanwell.com</li> <li>For A/AB type need to con</li> </ol>	TETHODS OF LED MOD nder low input voltages. F asured at first cold start. a component that will be al equipment manufacture meanwell.com//Upload/F latest ErP regulation for I al life expectancy of >62,0 statement on MEAN WE erating of 3.5°C/1000m w nd IP water proof function /Upload/PDF/LED_EN.pd	ULE". Please refer to "STATIC C Furning ON/OFF the drive operated in combination ers must re-qualify EMC PDF/EMI_statement_en.p ighting fixtures, this LED 00 hours of operation wh ELL's website at http://ww ith fanless models and of installation caution, plea If	CHARACTERISTIC" section or may lead to increase of with final equipment. Since Directive on the complete df) driver can only be used b then Tcase, particularly (tc) w.meanwell.com. f 5°C/1000m with fan moo se refer our user manual	ons for details. the set up time. e EMC performance will t installation again. ehind a switch without pe point (or TMP, per DLC), lels for operating altitude t	manently is about 75℃ or less.	





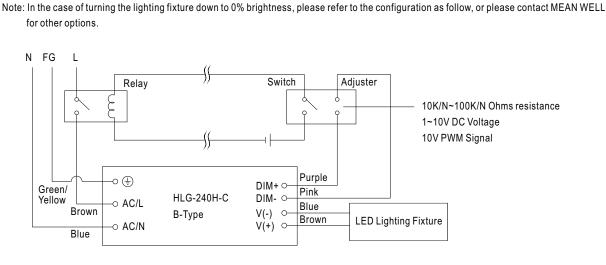






### 250W Constant Current Mode LED Driver

# HLG-240H-C series

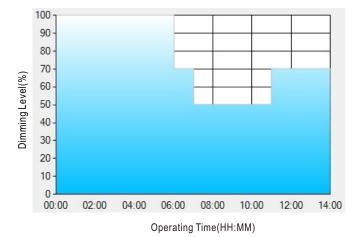


Using a switch and relay can turn ON/OFF the lighting fixture.

#### % 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	Τ4
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:

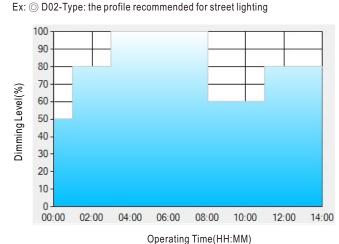
[1] The power supply will switch to the constant current level at 100% starting from 6:00pm.

[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:

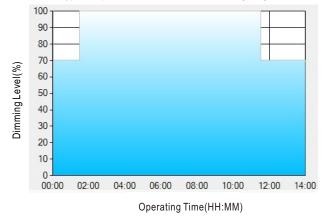
[1] The power supply will switch to the constant current level at 50% starting from 5:00pm.

[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: 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.

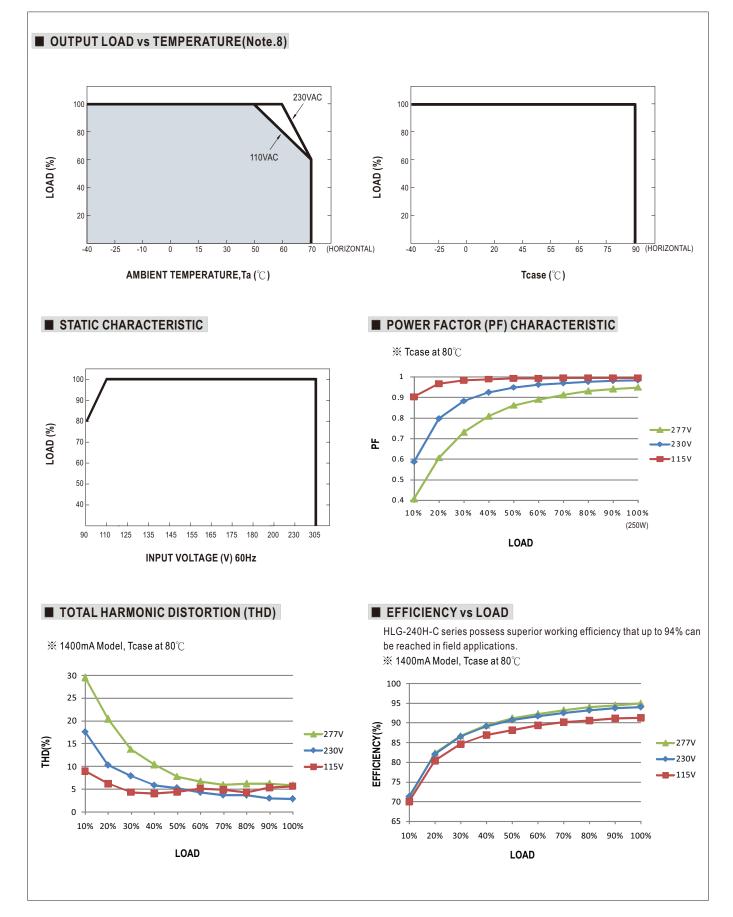
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

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







### 250W Constant Current Mode LED Driver

LIFE TIME

