







Features

- Constant Current mode output
- · Metal housing with Class I design
- · Built-in active PFC function
- · Environment-adaptive driving capability
- · IP67 / IP65 design for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
 3 in 1 dimming (dim-to-off,isolated design); Smart timer dimming; Low temperature light-on; Junction box
- Typical lifetime>62000 hours (Note.7)
- 7 years warranty

Description

Applications

- LED Harbour
- LED greenhouse lighting
- LED statium lighting
- LED mining lighting
- Type "HL" for use in Class I ,Division 2 hazardous(Classified) location

GTIN CODE

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

HLG-480H-C series is a 480W LED AC/DC driver featuring the constant current mode and high voltage output. HLG-480H-C operates from 90~305VAC and offers models with different rated current ranging between 1400mA and 3500mA. Thanks to the high efficiency up to 95%, with the fanless design, the entire series is able to operate for -40° C ~ $+90^{\circ}$ 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. Moreover, the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world. HLG-480H-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 - 480H - C1400 A Function options Rated output current(1400/1750/2100/2800/3500mA) High input voltage up to 305VAC Rated wattage Series name

Туре	IP Level	Function	Note
A	IP65	Io adjustable through built-in potentiometer. And environment adaptiveness.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance) and environment adaptiveness.	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. And environment adaptiveness.	By request
D2	IP67	Built-in Smart timer dimming and programmable function. And environment adaptiveness.	In Stock

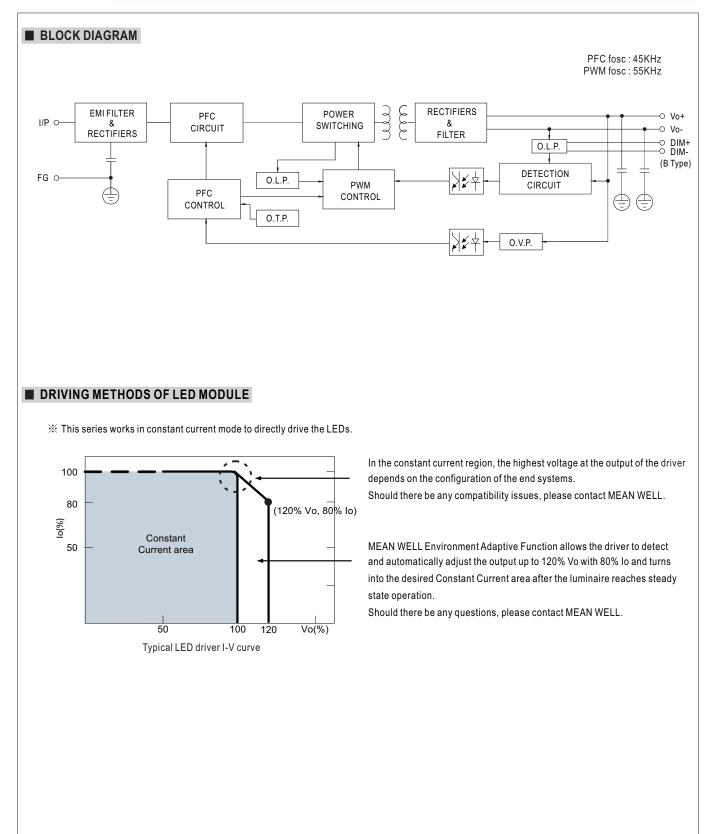
File Name:HLG-480H-C-SPEC 2024-10-11



SPECIFICATION

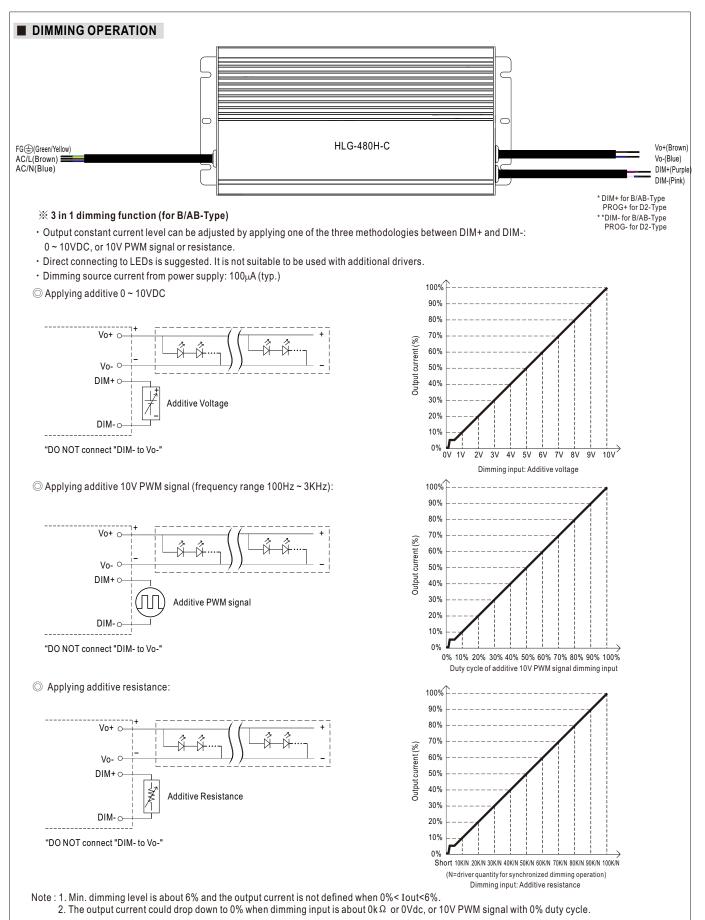
MODEL		HLG-480H-C1400	HLG-480H-C1750	HLG-480H-C2100	HLG-480H-C2800	HLG-480H-C3500	
	RATED CURRENT	1400mA	1750mA	2100mA	2800mA	3500mA	
	RATED POWER	480W	480W	481W	479W	480W	
	CONSTANT CURRENT REGION Note.2	171 ~ 343V	137~274V	114 ~ 229V	85~171V	68 ~ 137V	
	OPEN CIRCUIT VOLTAGE (max.)		340V	280V	210V	170V	
OUTPUT	, , , , , , , , , , , , , , , , , , ,	Adjustable for A/AB-Type only (via built-in potentiometer)					
	CURRENT ADJ. RANGE	700~1400mA	875~1750mA	1050~2100mA	1400~2800mA	1750~3500mA	
	CURRENT RIPPLE	5.0% max. @rated curre	ent				
	CURRENT TOLERANCE	±5%					
	SET UP TIME Note.4	500ms/115VAC,230VAC					
			~ 431VDC				
	VOLTAGE RANGE Note.3		C CHARACTERISTIC" sec	ction)			
	FREQUENCY RANGE	47 ~ 63Hz					
		$PF \ge 0.98/115$ VAC, $PF \ge 0.97/230$ VAC, $PF \ge 0.95/277$ VAC @full load					
	POWER FACTOR (Typ.)	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)					
		THD< 20% (@ load \geq 40% /115VAC, 230VAC, 277VAC)					
INPUT	TOTAL HARMONIC DISTORTION		L HARMONIC DISTORTI				
	EFFICIENCY (Typ.)	95%	95%	95%	95%	95%	
	AC CURRENT (Typ.)		A/230VAC 2A/277		0070	0070	
	INRUSH CURRENT(Typ.)		=1800µs measured at 50%	-	IA 410		
	MAX. NO. of PSUs on 16A						
	CIRCUIT BREAKER	2 unit(circuit breaker of	type B) / 3 units(circuit bre	eaker of type C) at 230VA0)		
	LEAKAGE CURRENT	<0.75mA / 277VAC					
			are automatically after fau	It condition is removed			
	SHORT CIRCUIT	432 ~ 473V	ers automatically after fau 345 ~ 382V	289 ~ 322V	215 ~ 246V	173 ~ 197V	
PROTECTION	OVER VOLTAGE				215~240V	1/3~19/0	
		Shut down output voltage, re-power on to recovery Shut down output voltage, re-power on to recovery					
					4!)		
	WORKING TEMP.		ase refer to "OUTPUT LO	AD VS TEMPERATURE" S	ection)		
	MAX. CASE TEMP.	Tcase=+90°C					
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.02%/°C (0~60°C)					
	VIBRATION		1cycle, period for 72min.	• • •			
SAFETY STANDARDS UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61 GB19510.14,GB19510.1; IP65 or IP67, EAC TP TC 004,AS / NZS IEC 61347.2.13: 20							
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					
	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	1350.9K hrs min. Tel	cordia SR-332(Bellcore);	110.5K hrs min. MIL-H	DBK-217F (25°C)		
OTHERS	DIMENSION	262*125*43.8mm (L*W*					
	PACKING	2.8Kg;4pcs/12.2Kg/0.55	5CUFT				
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 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 power supply 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 affect 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) To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanen 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 8. 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 the tor 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 For A/AB type need to consider build in using to comply with Type HL application. 				ermanently is about 75℃ or less.		







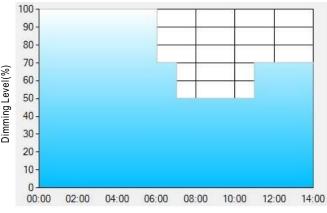
480W Constant Current Mode LED Driver





% 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

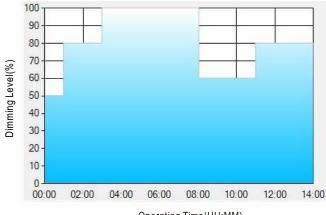
Set up for D01-Type in Smart timer dimming software program:

	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	Τ4	Τ5
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.

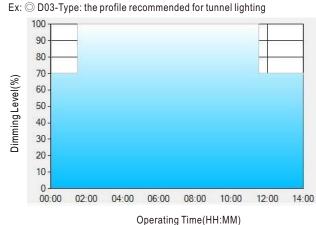
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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.





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

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

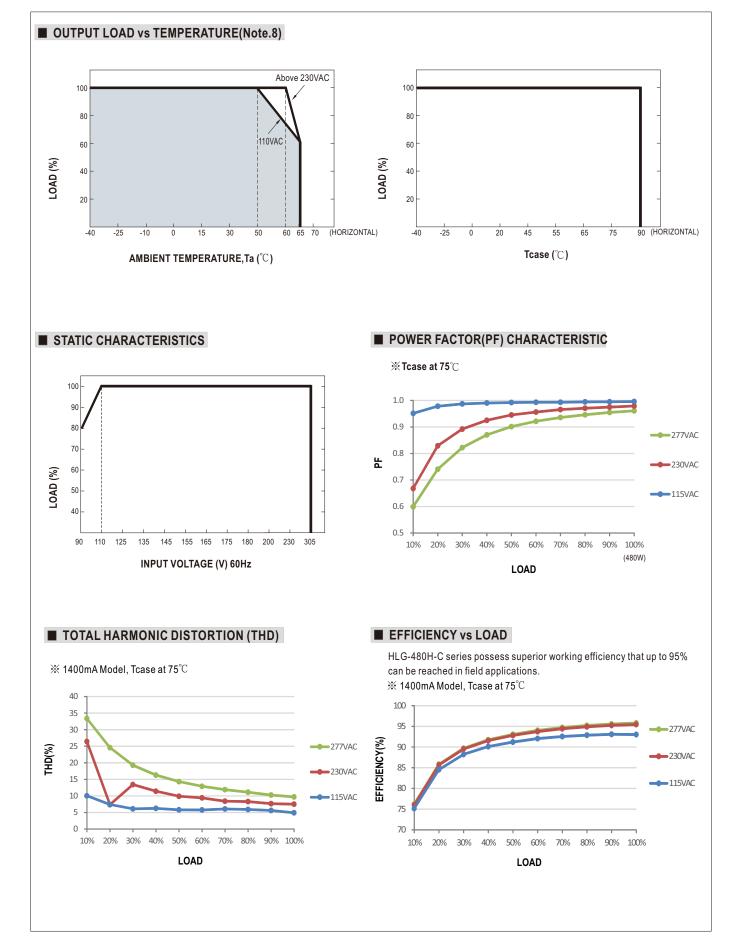
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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.

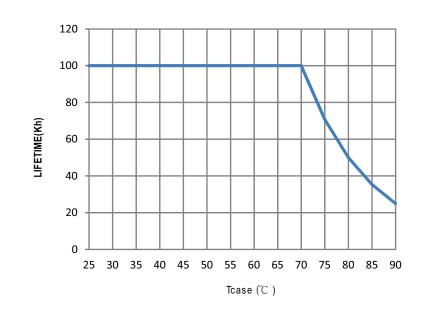
[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on. [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The constant current level remains till 6:30am, which is 14:00 after the power supply turns on.



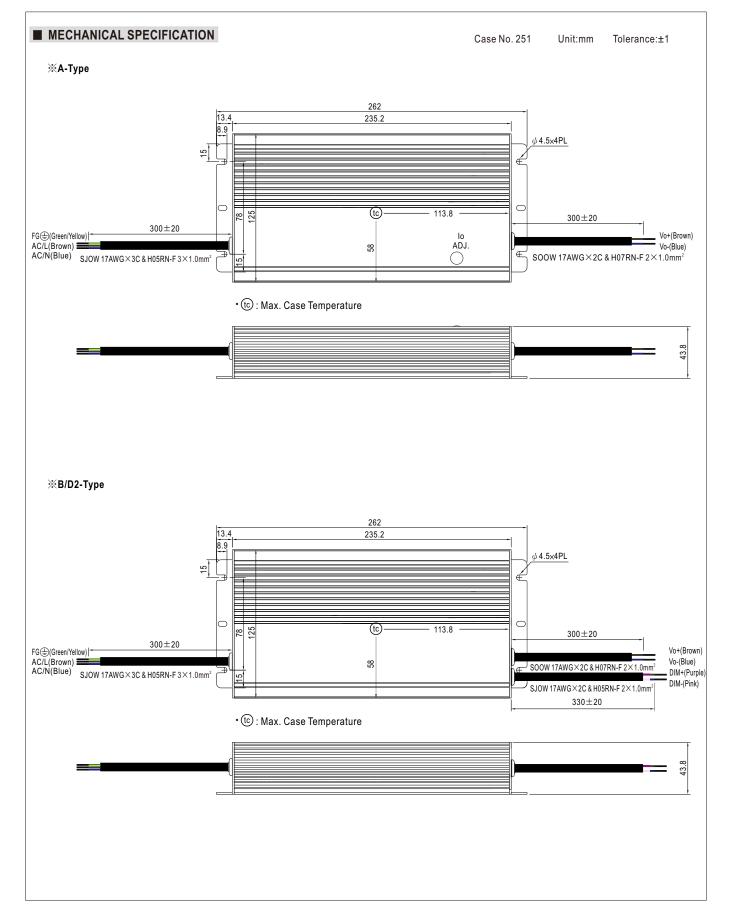




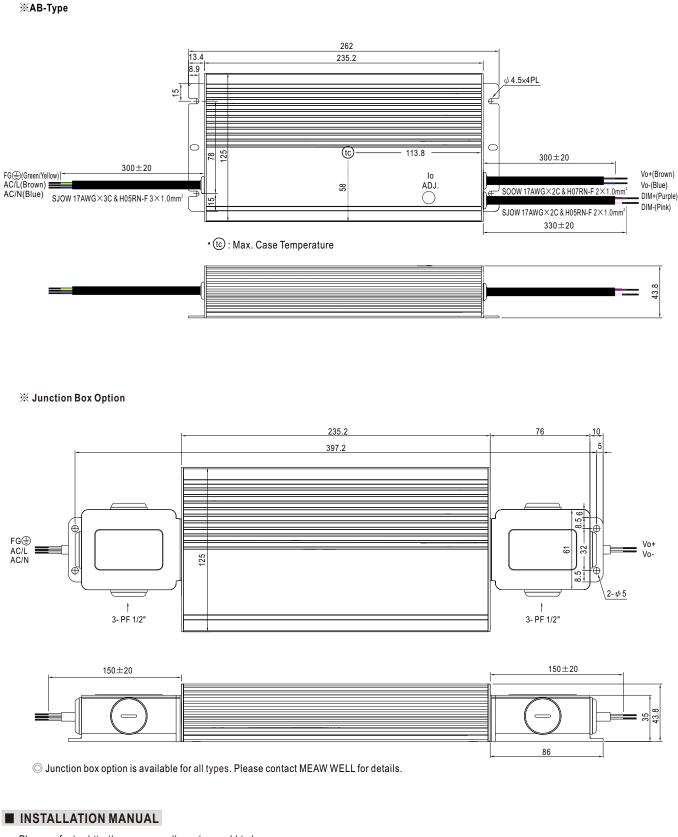
LIFE TIME











Please refer to : http://www.meanwell.com/manual.html