

HLG-480H-C series





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

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

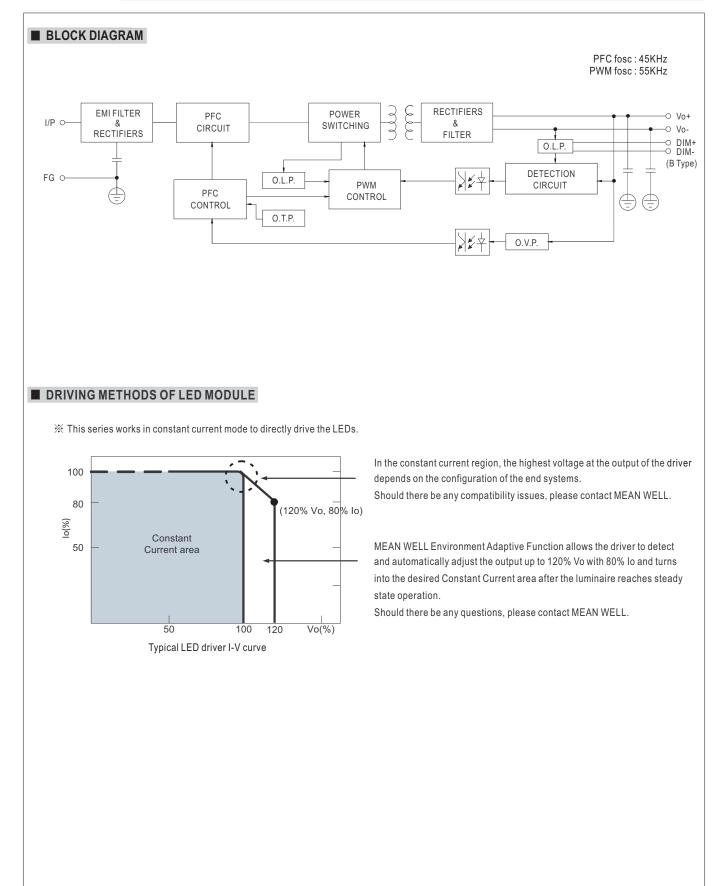
Туре	IP Level	Function	Note
A	IP65	Io adjustable through built-in potentiometer. And environment adaptiveness.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance) and environment adaptiveness.	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming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



SPECIFICATION

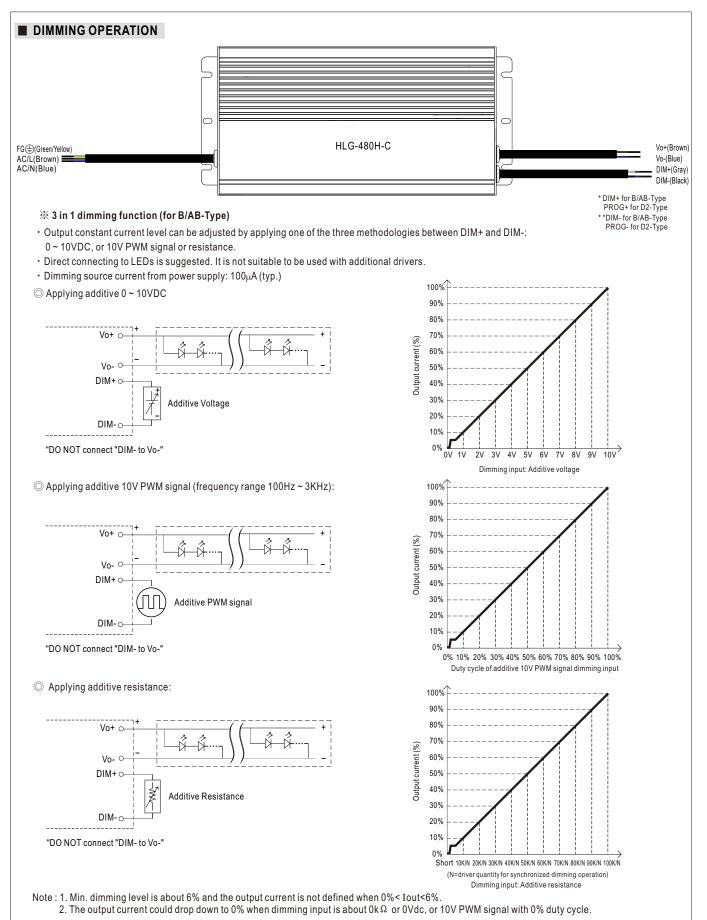
MODEL		HLG-480H-C1400	HLG-480H-C1750	HLG-480H-C2100	HLG-480H-C2800	HLG-480H-C3500		
	RATED CURRENT	1400mA	1750mA	2100mA	2800mA	3500mA		
	RATED POWER	480W	480W	481W	479W	480W		
	CONSTANT CURRENT REGION Note.2	171~343V	137~274V	114 ~ 229V	85~171V	68~137V		
	OPEN CIRCUIT VOLTAGE (max.)		340V	280V	210V	170V		
OUTPUT		Adjustable for A/AB-Type			1	1		
	CURRENT ADJ. RANGE	700~1400mA	875~1750mA	1050~2100mA	1400~2800mA	1750~3500mA		
	CURRENT RIPPLE	5.0% max. @rated curre		1000 21001131	1100 2000			
	CURRENT TOLERANCE	±5%						
		500ms/115VAC.230VAC						
	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	POWER FACTOR (Typ.)	PF≧0.98/115VAC, PF≧0.97/230VAC, PF≧0.95/277VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION	THD< 20% (@ load≧40	THD< 20% (@ load ≥ 40% /115VAC, 230VAC, 277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)					
	EFFICIENCY (Typ.)	95%	95%	95%	95%	95%		
	AC CURRENT (Typ.)		/ 230VAC 2A / 277V					
	INRUSH CURRENT(Typ.)	COLD START 35A(twidth=	1800µs measured at 50%	Ipeak) at 230VAC; Per NEM	A 410			
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	2 unit(circuit breaker of type B) / 3 units(circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	SHORT CIRCUIT	Constant current, recove	ers automatically after fau	It condition is removed				
PROTECTION	OVER VOLTAGE	432 ~ 473V 345 ~ 382V 289 ~ 322V 215 ~ 246V 173 ~ 197V						
		Shut down output voltage, re-power on to recovery						
	OVER TEMPERATURE	Shut down output voltage, re-power on to recovery						
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
	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 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; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB1951 IP65 or IP67, EAC TP TC 004,AS/NZS IEC 61347, 2, 13; 2013, AS/NZS 61347, 1; 2016 approved				84; GB19510.14,GB19510		
SAFETY &	WITHSTAND VOLTAGE			,				
EMC	ISOLATION RESISTANCE							
EIVIC	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Compliance to EN55015, EN61000-3-2 Class C (@load≧50%); EN61000-3-3; GB17743, GB17625.1, EAC TP TC 020						
	EMC IMMUNITY			<u> </u>				
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020 421.1K hrs min. Telcordia SR-332(Bellcore) ; 110.5K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	262*125*43.8mm (L*W*H)						
OTTIERO								
NOTE	PACKING 2.8Kg;4pcs/12.2Kg/0.55CUFT 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 power supply 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. 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 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(6500f) 10. 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 % Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							







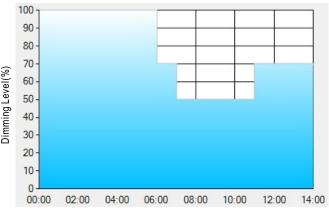
480W Constant Current Mode LED Driver





% 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

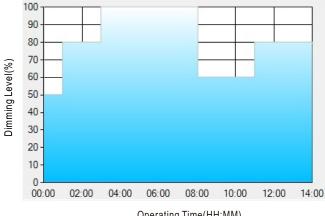
Set up for D01-Type in Smart timer dimming software program:

	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	T4	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:

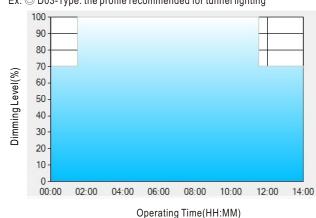
[1] The power supply will switch to the constant current level at 50% starting from 5:00pm.

[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.





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%	

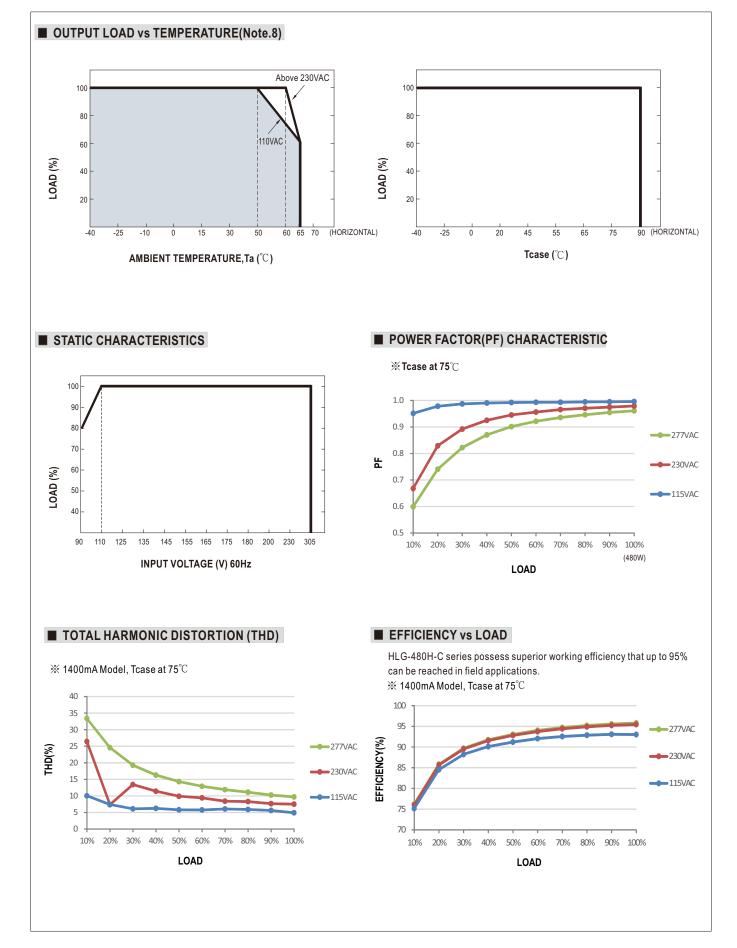
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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.

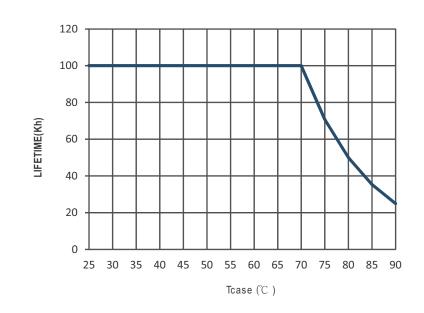
[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.
 [3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on.
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





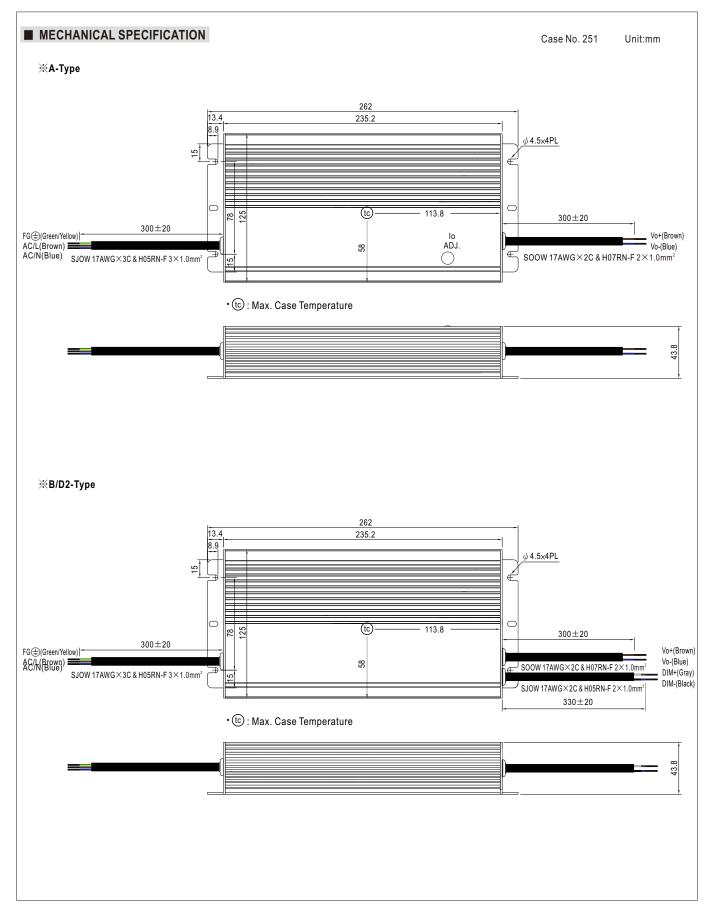


LIFE TIME



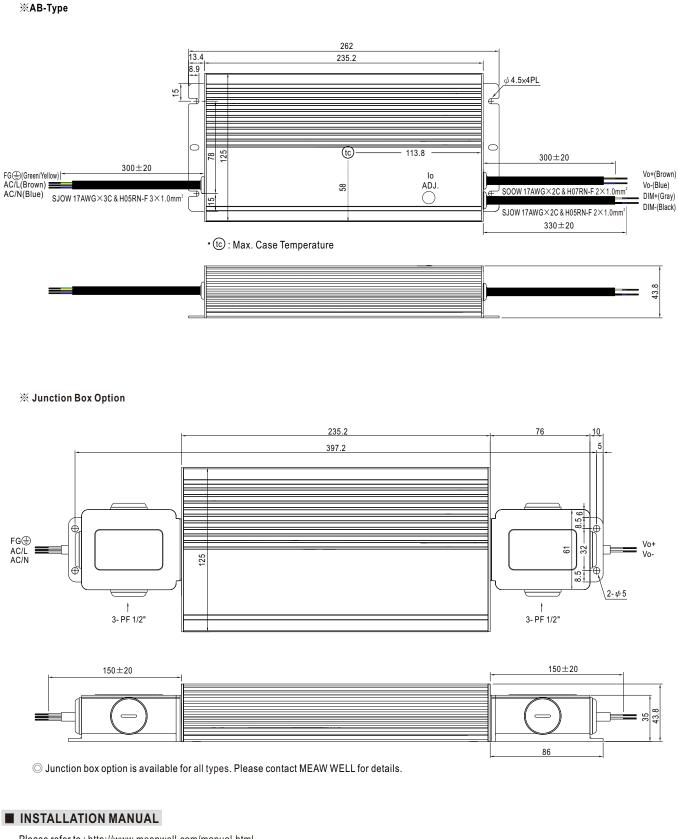


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Please refer to : http://www.meanwell.com/manual.html