







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

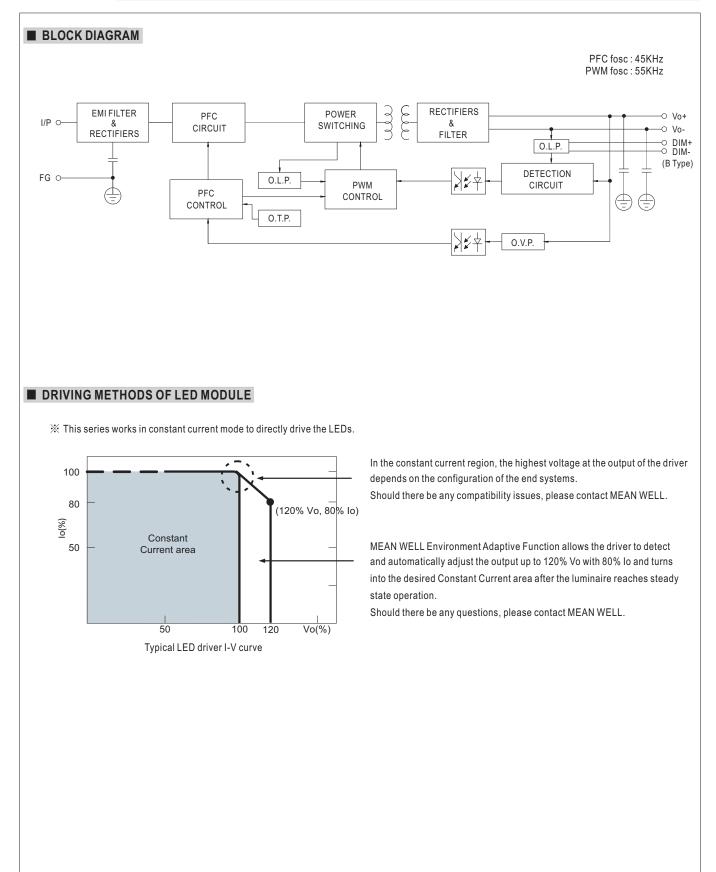
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SPECIFICATION

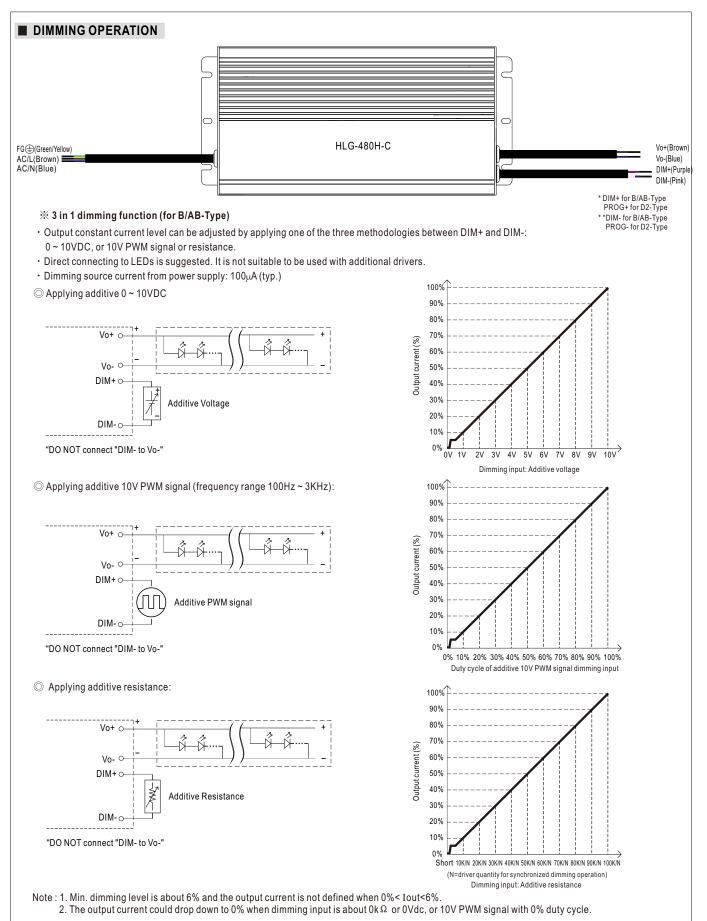
MODEL		HLG-480H-C1400	HLG-480H-C1750	HLG-480H-C2100	HLG-480H-C2800	HLG-480H-C3500	
	RATED CURRENT	1400mA	1750mA	2100mA	2800mA	3500mA	
	RATED POWER	480W	480W	481W	479W	480W	
	CONSTANT CURRENT REGION Note.2	171~343V	137~274V	114 ~ 229V	85~171V	68~137V	
	OPEN CIRCUIT VOLTAGE (max.)		340V	280V	210V	170V	
ουτρυτ		Adjustable for A/AB-Type			2100		
OUIPUI	CURRENT ADJ. RANGE	700~1400mA	875~1750mA	1050~2100mA	1400~2800mA	1750~3500mA	
	CURRENT RIPPLE	5.0% max. @rated curre		1000 2100111/1	1400 2000001	1700 000011/1	
	CURRENT TOLERANCE						
	SET UP TIME Note.4						
	SET OF TIME Note.4	90 ~ 305VAC 127 ~ 431VDC					
	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE						
	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		,			
INPUT		(Please refer to "TOTAL		, , ,			
	EFFICIENCY (Typ.)	95%	95%	95%	95%	95%	
	AC CURRENT (Typ.)		/ 230VAC 2A / 277\	-			
	INRUSH CURRENT(Typ.)	COLD START 35A(twidth=	1800µs measured at 50%	Ipeak) at 230VAC; Per NEM	IA 410		
	MAX. NO. of PSUs on 16A	2 unit(circuit breaker of type B) / 3 units(circuit breaker of type C) at 230VAC					
	CIRCUIT BREAKER	2 antionous oreases of type b/ a unitationous preases of type b/ at 200 and					
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	SHORT CIRCUIT	Constant current, recove	rs automatically after fau	It condition is removed			
DEATEATION		432 ~ 473V	345 ~ 382V	289 ~ 322V	215~246V	173 ~ 197V	
PROTECTION	OVER VOLTAGE	Shut down output voltage, re-power on to recovery					
	OVER TEMPERATURE	Shut down output voltage	e, re-power on to recover	у			
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+90°C					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	$\pm 0.02\%/^{\circ}$ (0 ~ 60°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 independent, BS EN/EN62384; GB19510.14, GB19510.1; IP65 or IP67, EAC TP TC 004, AS / NZS IEC 61347, 2, 13; 2013, AS / NZS 61347, 1; 2016 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					
		Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 50%); BS EN/EN61000-3-3; GB17743, GB17625.1.					
	EMC EMISSION	EXAMPLE ACTION CONTRACT CONTR					
	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. Telcordia SR-332(Bellcore) ; 110.5K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	262*125*43.8mm (L*W*I	H)				
	PACKING	2.8Kg;4pcs/12.2Kg/0.55CUFT					
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 affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 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. This series meets the typical life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less. 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 than 2000m(650 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 						







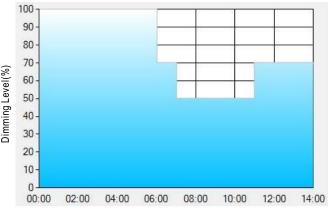
480W Constant Current Mode LED Driver





% 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

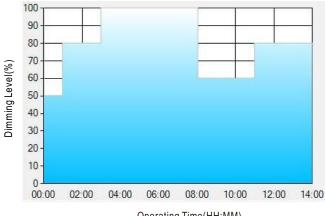
Set up for D01-Type in Smart timer dimming software program:

	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.

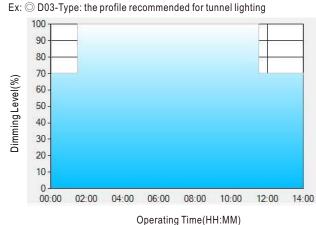
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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.

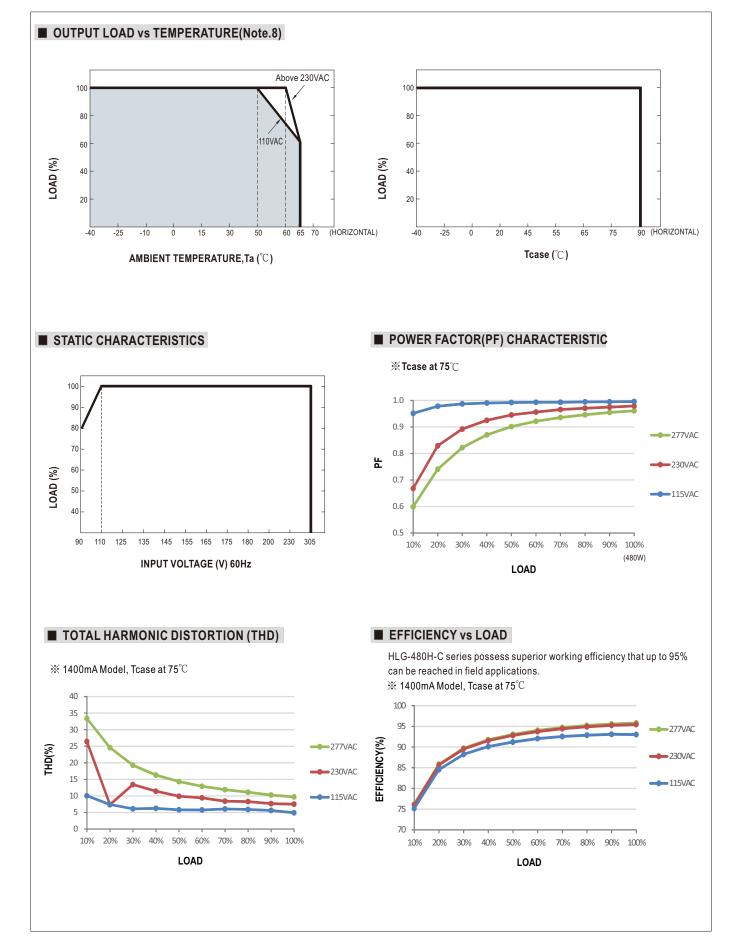
Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance:

[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

