

Наличие и актуальные цены на

HLG-480H-24

https://www.mean-well.ru/store/HLG-480H-24/



480W Constant Voltage + Constant Current LED Driver **HLG-480H** series







Applications

LED greenhouse lighting

• Type "HL" for use in Class I, Division 2

MW Search: <u>https://www.meanwell.com/serviceGTIN.aspx</u>

hazardous(Classified) location

· LED statium lighting

LED mining lighting

GTIN CODE

· LED Harbour

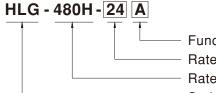
Features

- Constant Voltage + Constant Current mode output
- * Metal housing with class ${\mathbb I}$ design
- Built-in active PFC function
- · IP67 / IP65 design for indoor or outdoor installations
- Function options: output adjustable via potentiometer;
 3 in 1 dimming (dim-to-off, isolated design); smart timer dimming; junction box
- Typical lifetime > 62000 hours
- 7 years warranty (Note.9)

Description

HLG-480H series is a 480W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-480H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 24V and 54V. Thanks to the high efficiency up to 95.5%, 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.HLG-480H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



Function options Rated output voltage (24V/30V/36V/42V/48V/54V) Rated wattage Series name

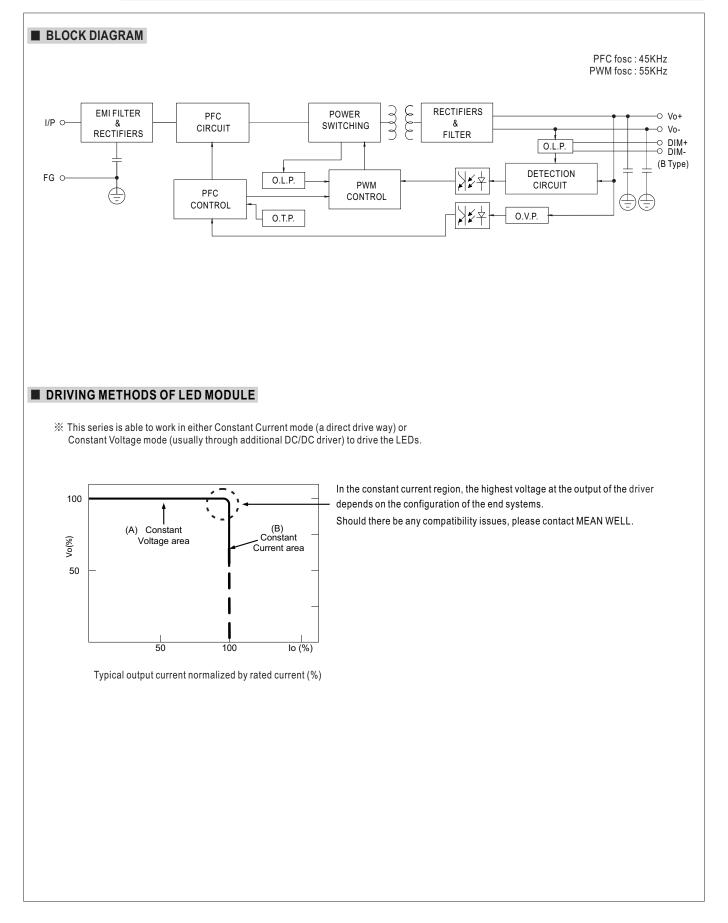
Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (0~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io and Vo adjustable through built-in potentiometer & 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
Dx	IP67	Built-in Smart timer dimming function by user request.	By request
D2	IP67	Built-in Smart timer dimming and programmable function.	In Stock



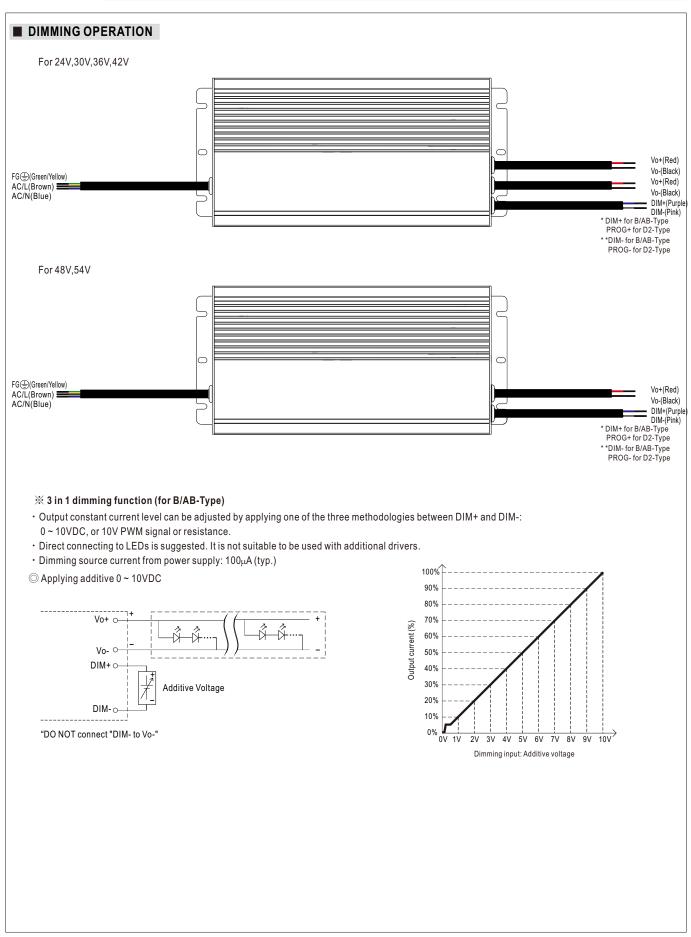
SPECIFICATION

MODEL			HLG-480H-24	HLG-480H-30	HLG-480H-36	HLG-480H-42	HLG-480H-48	HLG-480H-54	
	DC VOLTAGE		24V	30V	36V	42V	48V	54V	
-	CONSTANT CURRENT	REGION Note.4	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V	
	RATED CURRENT	Г	20A	16A	13.3A	11.4A	10A	8.9A	
	RATED POWER		480W	480W	478.8W	478.8W	480W	480.6W	
	RIPPLE & NOISE ((max.) Note.2	200mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
		, , ,		-Type only (via built-i					
	VOLTAGE ADJ. RANGE		20.4 ~ 25.2V	25.5 ~ 31.5V	30.6 ~ 37.8V	35.7 ~ 44.1V	40.8 ~ 50.4V	45.9 ~ 56.7V	
OUTPUT	CURRENT ADJ. RANGE			-Type only (via built-i	1	57.44.44	5 404	4.4.004	
			10~20A	8~16A	6.6~13.3A	5.7 ~ 11.4A	5~10A	4.4~8.9A	
	VOLTAGE TOLERANCE Note.3			±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
			±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.6		500ms, 80ms 115VA	AC/230VAC					
	HOLD UP TIME (T	yp.)	16ms 115VAC/23	0VAC					
	VOLTAGE RANGE Note.5		90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RAN	NGF	47 ~ 63Hz						
	TREGOLITOTIKA			PF≧0.97/230VAC, PF	>0 05/277\/AC @ ft	ll load			
	POWER FACTOR	(Тур.)	´	· · · · · ·	0				
				NER FACTOR (PF) CH		cuon)			
	TOTAL HARMONIC	DISTORTION	THD< 20% (@ load≧40% / 115VAC,230VAC,277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)						
		000140	`		. ,	,			
INPUT	EFFICIENCY	230VAC	94%	94.5%	95%	95%	94.5%	95%	
	(Тур.)	277VAC	94.5%	95%	95.5%	95.5%	95%	95%	
	AC CURRENT (Ty	p.)			A / 277VAC				
	INRUSH CURREN	Т(Тур.)	COLD START 35A(tw	vidth=1800µs measured	at 50% Ipeak) at 230V	AC; Per NEMA 410			
	LEAKAGE CURRE	ENT	<0.75mA/277VAC						
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER		2unit(circuit breaker of type B) / 3units(circuit breaker of type C) at 230VAC						
	OVER CURRENT		95 ~ 108%						
PROTECTION	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed Constant current limiting, recovers automatically after fault condition is removed						
PROTECTION			27 ~ 33V	33~40V	40~50V	46 ~ 55V	53~63V	60~70V	
	OVER VOLTAGE		Shut down output vo	ltage, re-power on to	recovery		1	1	
	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)						
		D	Tcase=+90°C						
	MAX. CASE TEMP.		20 ~ 95% RH non-condensing						
ENVIRONMENT	WORKING HUMIDITY								
	STORAGE TEMP., HUMIDITY		-40 ~ +80°C, 10 ~ 95% RH non-condensing						
	TEMP. COEFFICIE	:NI	±0.02%/°C (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; KC61347-1, KC61347-2-13(except for AB, Dx, D2-type), J61347-1(H29), J61347-2-13(H29)(except for Dx type) approved						
	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
SAFETY &	ISOLATION RESIS								
EMC	ISOLATION RESIL	STANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 [°] C / 70% RH						
LIIIO	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;KC KN15,KN61547(except for AB,Dx,D2-type),J55015(H29)(for Blank/A-type)						
	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;KC KN15,KN61547(except for AB,Dx,D2-type),J55015(H29)(for Blank/A-type)						
	MTBF		1185.9K hrs min. Telcordia SR-332(Bellcore) ; 95.4K hrs min. MIL-HDBK-217F (25℃)						
OTHERS	DIMENSION		262*125*43.8mm (L*W*H)						
	PACKING		2.8Kg;4pcs/12.2Kg/0.55CUFT						
NOTE	 Ripple & noise Tolerance : inc Please refer to De-rating may Length of set u The driver is complete insta (as available or To fulfill require connected to ti This series me Please refer ti The ambient i For any applie 	e are measure ludes set up "DRIVING N be needed u up time is me smellation, the fir n https://www ements of the he mains. wets the typicat to the warran temperature cation note a	ed at 20MHz of band tolerance, line regula /IETHODS OF LED M inder low input voltag assured at first cold st a component that wi al equipment manufa /meanwell.com//Uplo latest ErP regulation al life expectancy of > ty statement on MEA derating of 3.5°C/100	width by using a 12" tion and load regulati MODULE". es. Please refer to "S art. Turning ON/OFF II be operated in com acturers must re-quali ad/PDF/EMI_stateme for lighting fixtures, ti 62,000 hours of oper N WELL's website at 0m with fanless mod ction installation caut	twisted pair-wire tem on. STATIC CHARACTEF the driver may lead bination with final eq fy EMC Directive on ent_en.pdf) his LED driver can or ration when Tcase, pr http://www.meanwel els and of 5°C/1000r	RISTIC" sections for c to increase of the set uipment. Since EMC the complete installat nly be used behind a articularly to point (o Il.com	A 7uf parallel capacito letails. up time. performance will be a ion again. switch without perman r TMP, per DLC), is at operating altitude high	ffected by the nently pout 75°C or less.	
	13. For A/AB type	e need to cor	nsider build in using to	o comply with Type ⊢		ell.com/serviceDisclair	ner.aspx File Name:HLG	-480H-SPEC 2024-10-	

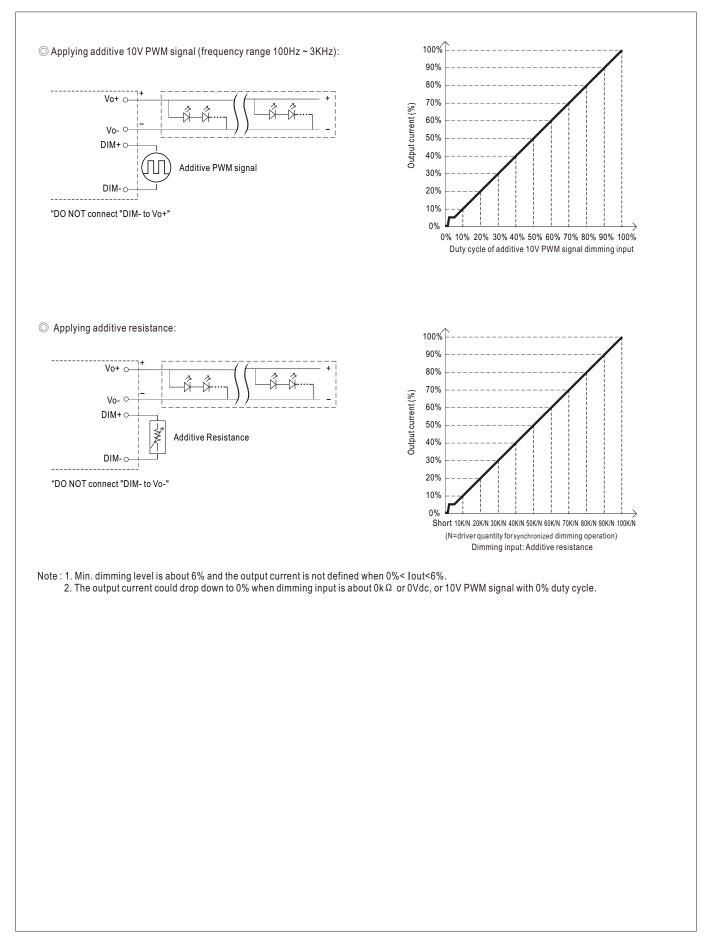










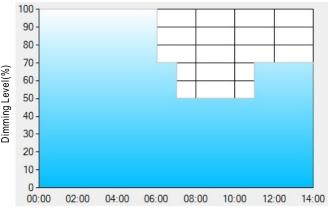




% Smart timer dimming function (for Dxx-Type by User definition)

Ex : O D01-Type: the profile recommended for residential lighting

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.



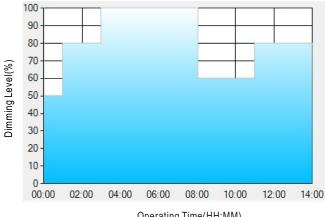
Set up for D01-Type in Smart timer dimming software program:

	T1	T2	Т3	Τ4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

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.

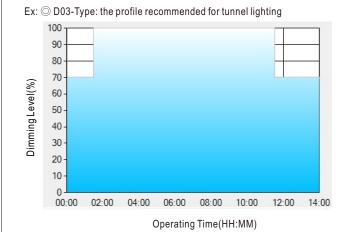
[2] The power supply will switch to the constant current level at 80% in turn, starting from 6:00pm, which is 01:00 after the power supply turns on.

[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%

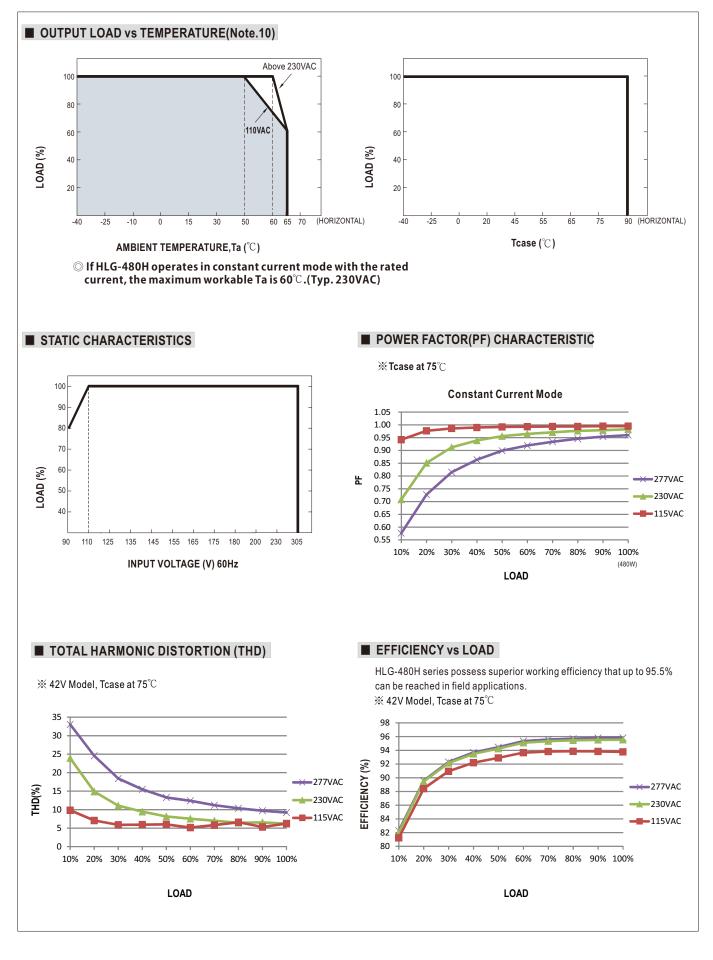
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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.

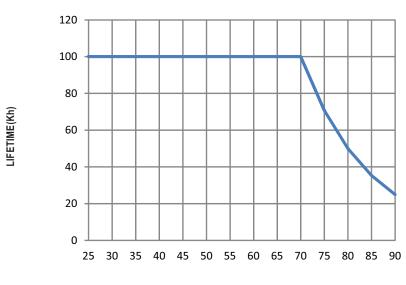
[2] The power supply will switch to the constant current level at 100% in turn, starting from 6:00pm, which is 01:30 after the power supply turns on.[3] The power supply will switch to the constant current level at 70% in turn, starting from 5:00am, which is 11:00 after the power supply turns on. The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







HLG-480H series



Tcase (°C)



