















### Features

- · Constant Voltage + 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 (dim-to-off, isolated design); smart timer dimming; junction box
- Typical lifetime > 62000 hours
- 7 years warranty (Note.9)

# Applications

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

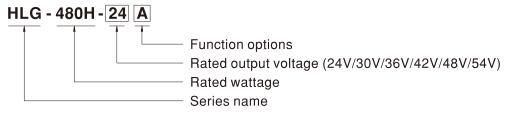
#### GTIN CODE

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

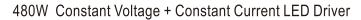
## Description

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  $^{\circ}$ C  $\sim$  +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



Type	IP Level	Function	Note
Blank	IP67	Io and Vo fixed	In Stock
Α	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**

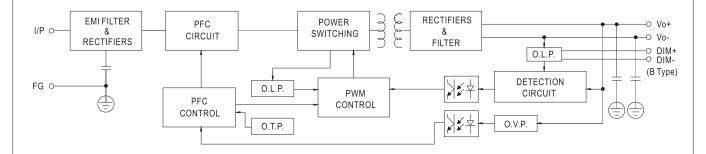
MODEL			HLG-480H-24	HLG-480H-30	HLG-480H-36	HLG-480H-42	HLG-480H-48	HLG-480H-54	
	DC VOLTAGE		24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT REGION Note.4		12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V	
ОИТРИТ	RATED CURRENT		20A	16A	13.3A	11.4A	10A	8.9A	
	RATED POWER	RATED POWER		480W	478.8W	478.8W	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	n potentiometer)				
	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	
			Adjustable for A/AB	-Type only (via built-i	n potentiometer)		'		
	CURRENT ADJ. RANGE		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%	±1.0%	
	LINE REGULATION	N	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATIO	ON .	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME		500ms, 80ms 115V	AC/230VAC					
ļ	HOLD UP TIME (Ty		500ms, 80ms 115VAC/230VAC 16ms 115VAC/230VAC						
		P-/		27 ~ 431VDC					
ļ	<b>VOLTAGE RANGE</b>	Note.5							
-	FREQUENCY RAN	GE							
	TREGOLINGTRAN	<u>GL</u>	47 ~ 63Hz   PF≥0.98/115VAC, PF≥0.97/230VAC, PF≥0.95/277VAC @ full load						
	POWER FACTOR (	Тур.)			_				
				(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)  THD< 20% (@ load≥40% / 115VAC,230VAC,277VAC)					
	TOTAL HARMONIC	DISTORTION	, ,	TAL HARMONIC DIS		ootion)			
INPUT	FFFIGIENOV	230VAC	,		1 ,		04.50/	050/	
NFUI	EFFICIENCY (Typ.)		94%	94.5%	95%	95%	94.5%	95%	
		277VAC	94.5%	95%	95.5%	95.5%	95%	95%	
	AC CURRENT (Typ		5A/115VAC 2.45A/230VAC 2A/277VAC						
	INRUSH CURRENT		COLD START 35A(twidth=1800µs measured at 50% lpeak) at 230VAC; Per NEMA 410						
•	MAX. NO. of PSUs on 16A CIRCUIT BREAKER		<0.75mA / 277VAC  2unit(circuit breaker of type B) / 3units(circuit breaker of type C) at 230VAC						
				95 ~ 108%					
	OVER CURRENT		Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT		Constant current limiting, recovers automatically after fault condition is removed						
PROTECTION	GHORT GIRCOTT		27 ~ 33V	33 ~ 40V	40 ~ 50V	46 ~ 55V	53 ~ 63V	60 ~ 70V	
	OVER VOLTAGE	OVER VOLTAGE							
ĺ	OVER TEMPERATURE		Shut down output voltage, re-power on to recovery  Shut down output voltage, re-power on to recovery						
	OVER TEMPERATI	IIRF		<u> </u>	o recovery				
	OVER TEMPERAT	URE	Shut down output v	oltage, re-power on to		IPERATURE" section	)		
	WORKING TEMP.		Shut down output v	oltage, re-power on to		IPERATURE" section	)		
	WORKING TEMP. MAX. CASE TEMP	),	Shut down output v Tcase= -40 ~ +90°C Tcase= +90°C	oltage, re-power on to (Please refer to "OU		IPERATURE" section	)		
NVIRONMENT	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI	r. ITY	Shut down output v Tcase= $-40 \sim +90^{\circ}$ C Tcase= $+90^{\circ}$ C $20 \sim 95\%$ RH non-c	oltage, re-power on to (Please refer to "OU ondensing	TPUT LOAD vs TEN	IPERATURE" section	)		
ENVIRONMENT	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP.,	). ITY HUMIDITY	Shut down output v Tcase= -40 ~ +90°C Tcase= +90°C 20 ~ 95% RH non-c -40 ~ +80°C, 10 ~ 95	oltage, re-power on to (Please refer to "OU ondensing 5% RH non-condensin	TPUT LOAD vs TEN	IPERATURE" section	)		
ENVIRONMENT	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE	). ITY HUMIDITY	Shut down output v Tcase= -40 $\sim$ +90 $^{\circ}$ C Tcase= +90 $^{\circ}$ C 20 $\sim$ 95% RH non-c -40 $\sim$ +80 $^{\circ}$ C, 10 $\sim$ 9: $\pm$ 0.02%/ $^{\circ}$ C (0 $\sim$ 60	oltage, re-power on to (Please refer to "OU ondensing 5% RH non-condensin	TPUT LOAD vs TEM		)		
ENVIRONMENT	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP.,	). ITY HUMIDITY	Shut down output v Tcase= -40 $\sim$ +90 $^{\circ}$ C Tcase= +90 $^{\circ}$ C 20 $\sim$ 95% RH non-c -40 $\sim$ +80 $^{\circ}$ C, 10 $\sim$ 90 $\pm$ 0.02%/ $^{\circ}$ C (0 $\sim$ 60 10 $\sim$ 500Hz, 5G 12n	oltage, re-power on to (Please refer to "OU ondensing 5% RH non-condensing C)	TPUT LOAD vs TEM	, Y, Z axes			
ENVIRONMENT	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE	TY HUMIDITY NT	Shut down output v Tcase= $-40 \sim +90^{\circ}\text{C}$ Tcase= $+90^{\circ}\text{C}$ 20 $\sim 95\%$ RH non-c $-40 \sim +80^{\circ}\text{C}$ , $10 \sim 99 \times 10^{\circ}$ (0 $\sim 60 \times 10 \times 10^{\circ}$ C (0 $\sim 60 \times 10 \times 10^{\circ}$ C (12 UL8750(type"HL"), GB19510.14,GB19510.14	oltage, re-power on to (Please refer to "OU condensing 6% RH non-condensing in:/1cycle, period for CSA C22.2 No. 250.13 10.1;IP65 or IP67, EA	TPUT LOAD vs TEM  72min. each along X 3-12; ENEC BS EN/E 3C TP TC 004,AS/NZ3	, Y, Z axes N61347-1, BS EN/EN6	61347-2-13 independe 3,AS/NZS 61347.1:20		
ENVIRONMENT	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION	P. HUMIDITY NT RDS	Shut down output v Tcase= -40 ~ +90 °C Tcase= +90 °C 20 ~ 95% RH non-c -40 ~ +80 °C, 10 ~ 99 ±0.02% °C (0 ~ 60 10 ~ 500Hz, 5G 12n UL8750(type"HL"), GB19510.14,GB198 KC61347-2-13(exce	oltage, re-power on to (Please refer to "OU condensing 6% RH non-condensing in:/1cycle, period for CSA C22.2 No. 250.13 10.1;IP65 or IP67, EA	72min. each along X 3-12; ENEC BS EN/E IC TP TC 004,AS/NZ , J61347-1(H29), J61	, Y, Z axes N61347-1, BS EN/EN6 S IEC 61347.2.13:201:	61347-2-13 independe 3,AS/NZS 61347.1:20		
	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR	TY HUMIDITY NT RDS	Shut down output v Tcase= -40 ~ +90°C Tcase= +90°C 20 ~ 95% RH non-c -40 ~ +80°C, 10 ~ 99 ±0.02%'C (0 ~ 60 10 ~ 500Hz, 5G 12n UL8750(type"HL"), GB19510.14,GB195 KC61347-2-13(exce	oltage, re-power on to (Please refer to "OU ondensing 5% RH non-condensin C) iin./1cycle, period for CSA C22.2 No. 250.13 10.1;IP65 or IP67, EA pt for AB,Dx,D2-type)	72min. each along X 3-12; ENEC BS EN/E IC TP TC 004,AS/NZ , J61347-1(H29), J61 0/P-FG:1.5KVAC	, Y, Z axes N61347-1, BS EN/EN6 S IEC 61347.2.13:201: 347-2-13(H29)(for Bla	61347-2-13 independe 3,AS/NZS 61347.1:20		
ENVIRONMENT  SAFETY & EMC	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAR WITHSTAND VOLT	TY HUMIDITY NT RDS	Shut down output v Tcase= -40 ~ +90 °C Tcase= +90 °C 20 ~ 95% RH non-c -40 ~ +80 °C, 10 ~ 99 ±0.02% °C (0 ~ 60 10 ~ 500Hz, 5G 12n UL8750(type"HL"), GB19510.14,GB195 KC61347-2-13(exce I/P-O/P:3.75KVAC I/P-O/P, I/P-FG, O/	ondensing Signature Representation of the condensing of the conden	72min. each along X 3-12; ENEC BS EN/E IC TP TC 004,AS/NZ3, , J61347-1(H29), J61 0/P-FG:1.5KVAC 00VDC / 25°C / 70% I EN61000-3-2 Class	, Y, Z axes N61347-1, BS EN/EN6 S IEC 61347.2.13:201: 347-2-13(H29)(for Bla	61347-2-13 independe 3,AS/NZS 61347.1:20 ink/A-type) approved SS EN/EN61000-3-3;C	16;KC61347-1,	
SAFETY &	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAF WITHSTAND VOLT ISOLATION RESIS	TY HUMIDITY NT RDS	Shut down output v Tcase= -40 ~ +90 °C Tcase= +90 °C 20 ~ 95% RH non-c -40 ~ +80 °C, 10 ~ 9: ±0.02%/°C (0 ~ 60 10 ~ 500Hz, 5G 12n UL8750(type"HL"), GB19510.14,GB195 KC61347-2-13(exce I/P-O/P, I/P-FG, O/ Compliance to BS EAC TP TC 020;KC Compliance to BS EAC TP TC 020;KC	ondensing 6% RH non-condensin (Please refer to "OU ondensing 6% RH non-condensin C) ini./1cycle, period for CSA C22.2 No. 250.13 10.1;IP65 or IP67, EA pt for AB,Dx,D2-type) I/P-FG:2KVAC CP-FG:100M Ohms / 5 EN/EN55015, BS EN/ KN15,KN61547(exc	9 72min. each along X 3-12; ENEC BS EN/E C TP TC 004,AS/NZ <sup>3</sup> , J61347-1(H29), J61 D/P-FG:1.5KVAC 00VDC / 25°C / 70% I EN61000-3-2 Class ept for AB,Dx,D2-typ ,5,6,8,11, BS EN/EN	, Y, Z axes N61347-1, BS EN/EN6 S IEC 61347.2.13:201: 347-2-13(H29)(for Bla RH - C (@ load≧50%); B pe),J55015(H29)(for B	61347-2-13 independe 3,AS/NZS 61347.1:20 ink/A-type) approved SS EN/EN61000-3-3;C	16;KC61347-1, 6B17743, GB17625 Line-Earth 4KV,	
SAFETY &	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAF WITHSTAND VOLT ISOLATION RESIS EMC EMISSION EMC IMMUNITY	TY HUMIDITY NT RDS	Shut down output v Tcase= -40 ~ +90 °C Tcase= +90 °C 20 ~ 95% RH non-c -40 ~ +80 °C, 10 ~ 99 ±0.02%/°C (0 ~ 60 10 ~ 500Hz, 5G 12n UL8750(type"HL"), GB19510.14,GB195 KC61347-2-13(exce I/P-O/P;3.75KVAC I/P-O/P, I/P-FG, O/ Compliance to BS E EAC TP TC 020;KC Compliance to BS E Line-Line 2KV), EA	ontage, re-power on to (Please refer to "OU ondensing 5% RH non-condensing 5% RH non-condensing in./1cycle, period for CSA C22.2 No. 250.13 10.1;IP65 or IP67, EA pt for AB,Dx,D2-type) I/P-FG:2KVAC C P-FG:100M Ohms / 5 EN/EN55015, BS EN/ KN15,KN61547(exc EN/EN61000-4-2,3,4, C TP TC 020;KC KN1	9 72min. each along X 3-12; ENEC BS EN/E C TP TC 004,AS/NZ3 , J61347-1(H29), J61 D/P-FG:1.5KVAC 00VDC / 25°C / 70% I EN61000-3-2 Class ept for AB,Dx,D2-typ ,5,6,8,11, BS EN/EN 5,KN61547(except i	, Y, Z axes N61347-1, BS EN/EN6 S IEC 61347.2.13:201: 347-2-13(H29)(for Bla RH C (@ load≧50%); B pe),J55015(H29)(for B 61547, light industry for AB,Dx,D2-type),J5	61347-2-13 independe 3,AS/NZS 61347.1:20: ank/A-type) approved sS EN/EN61000-3-3;C Blank/A-type) level (surge immunity 55015(H29)(for Blank	16;KC61347-1, 6B17743, GB17625 Line-Earth 4KV,	
SAFETY &	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAF WITHSTAND VOLT ISOLATION RESIS EMC EMISSION EMC IMMUNITY MTBF	TY HUMIDITY NT RDS	Shut down output v Tcase= -40 ~ +90°C Tcase= +90°C 20 ~ 95% RH non-c -40 ~ +80°C, 10 ~ 99 ±0.02%/°C (0 ~ 60 10 ~ 500Hz, 5G 12n UL8750(type"HL"), GB19510.14,GB195 KC61347-2-13(exce I/P-O/P; I/P-FG, O/ Compliance to BS E EAC TP TC 020;KC Compliance to BS E Line-Line 2KV), EA 1185.9K hrs min.	oltage, re-power on to (Please refer to "OU ondensing 5% RH non-condensing 5% RH non-condensing 5% RH non-condensing 5% RH non-condensing 500 RH non-condensing 501 RH period for CSA C22.2 No. 250.13 10.1;IP65 or IP67, EA pt for AB,Dx,D2-type) I/P-FG:2KVAC CO P-FG:100M Ohms / 5 EN/EN55015, BS EN/ KN15,KN61547(exc EN/EN61000-4-2,3,4, C TP TC 020;KC KN1 Telcordia SR-332(Bel	9 72min. each along X 3-12; ENEC BS EN/E C TP TC 004,AS/NZ3 , J61347-1(H29), J61 D/P-FG:1.5KVAC 00VDC / 25°C / 70% I EN61000-3-2 Class ept for AB,Dx,D2-typ ,5,6,8,11, BS EN/EN 5,KN61547(except i	, Y, Z axes N61347-1, BS EN/EN6 S IEC 61347.2.13:201: 347-2-13(H29)(for Bla RH C (@ load≧50%); B pe),J55015(H29)(for B 61547, light industry for AB,Dx,D2-type),J5	61347-2-13 independe 3,AS/NZS 61347.1:20: ank/A-type) approved sS EN/EN61000-3-3;C Blank/A-type) level (surge immunity 55015(H29)(for Blank	16;KC61347-1, 6B17743, GB17625 Line-Earth 4KV,	
SAFETY &	WORKING TEMP. MAX. CASE TEMP WORKING HUMIDI STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAF WITHSTAND VOLT ISOLATION RESIS EMC EMISSION EMC IMMUNITY	TY HUMIDITY NT RDS	Shut down output v Tcase= -40 ~ +90 °C Tcase= +90 °C 20 ~ 95% RH non-c -40 ~ +80 °C, 10 ~ 99 ±0.02%/°C (0 ~ 60 10 ~ 500Hz, 5G 12n UL8750(type"HL"), GB19510.14,GB195 KC61347-2-13(exce I/P-O/P;3.75KVAC I/P-O/P, I/P-FG, O/ Compliance to BS E EAC TP TC 020;KC Compliance to BS E Line-Line 2KV), EA	ontage, re-power on to (Please refer to "OU ondensing 5% RH non-condensing 5% RH non-condensing in./1cycle, period for CSA C22.2 No. 250.13 10.1;IP65 or IP67, EA pt for AB,Dx,D2-type) I/P-FG:2KVAC C P-FG:100M Ohms / 5 EN/EN55015, BS EN/ KN15,KN61547(exc EN/EN61000-4-2,3,4, C TP TC 020;KC KN1 Telcordia SR-332(Bel *W*H)	9 72min. each along X 3-12; ENEC BS EN/E C TP TC 004,AS/NZ3 , J61347-1(H29), J61 D/P-FG:1.5KVAC 00VDC / 25°C / 70% I EN61000-3-2 Class ept for AB,Dx,D2-typ ,5,6,8,11, BS EN/EN 5,KN61547(except i	, Y, Z axes N61347-1, BS EN/EN6 S IEC 61347.2.13:201: 347-2-13(H29)(for Bla RH C (@ load≧50%); B pe),J55015(H29)(for B 61547, light industry for AB,Dx,D2-type),J5	61347-2-13 independe 3,AS/NZS 61347.1:20: ank/A-type) approved sS EN/EN61000-3-3;C Blank/A-type) level (surge immunity 55015(H29)(for Blank	16;KC61347-1, 6B17743, GB17625 Line-Earth 4KV,	

- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. Please refer to "DRIVING METHODS OF LED MODULE".
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 11. 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(6500ft),
- 12. For any application note and IP water proof function installation caution, please refer our user manual before using.  $https://www.meanwell.com/Upload/PDF/LED\_EN.pdf$
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:HLG-480H-SPEC 2022-02-18



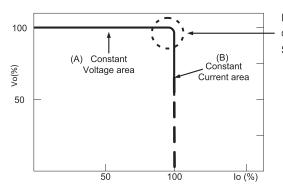


PFC fosc : 45KHz PWM fosc : 55KHz



## ■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

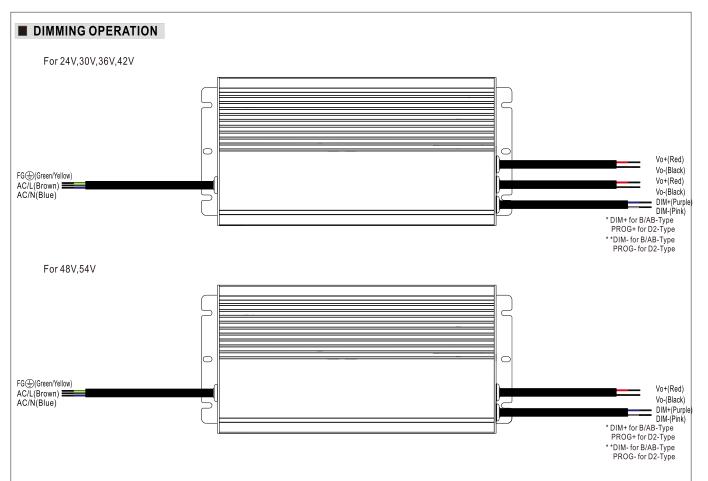


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

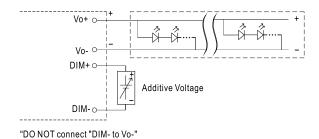


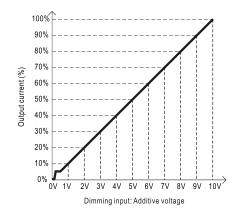


### **※** 3 in 1 dimming function (for B/AB-Type)

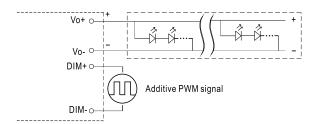
- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
   0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply:  $100\mu A$  (typ.)

## O Applying additive 0 ~ 10VDC

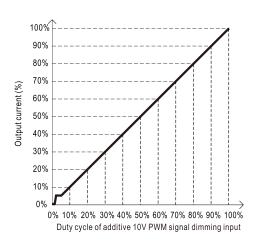




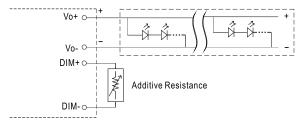
O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



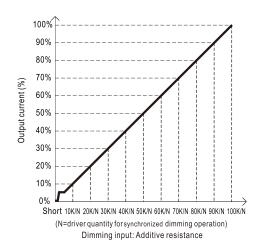
"DO NOT connect "DIM- to Vo+"



O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"



Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

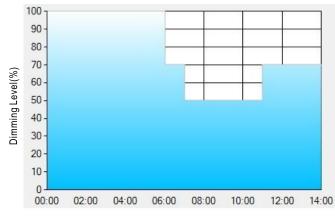
2. The output current could drop down to 0% when dimming input is about 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.



#### **X** 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: OD01-Type: the profile recommended for residential lighting



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

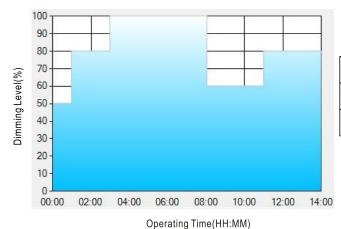
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

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	T5
TIME**	01:00	03:00	8:00	11:00	
LEVEL**	50%	80%	100%	60%	80%

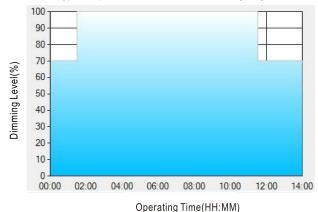
\*\*: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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.

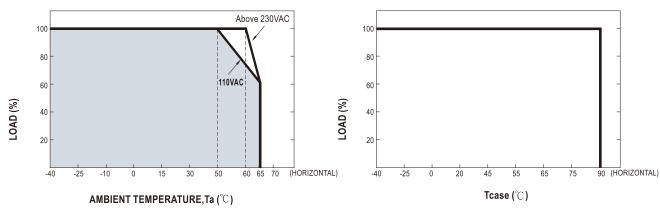
 $\textbf{Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance: \\$ 

- [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 5:00 am, 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.



## ■ OUTPUT LOAD vs TEMPERATURE(Note.10)

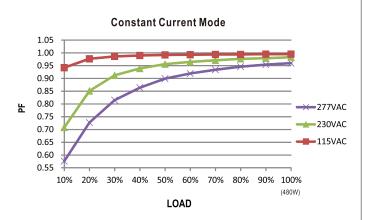


#### **■ STATIC CHARACTERISTICS**

# 100 90 70 70 40 90 110 125 135 145 155 165 175 180 200 230 305 INPUT VOLTAGE (V) 60Hz

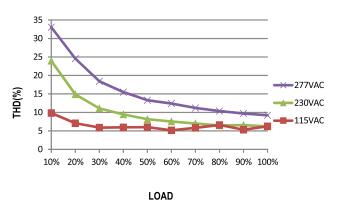
# **■ POWER FACTOR(PF) CHARACTERISTIC**





### ■ TOTAL HARMONIC DISTORTION (THD)

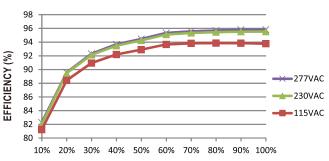
#### ¾ 42V Model, Tcase at 75°C



#### **■** EFFICIENCY vs LOAD

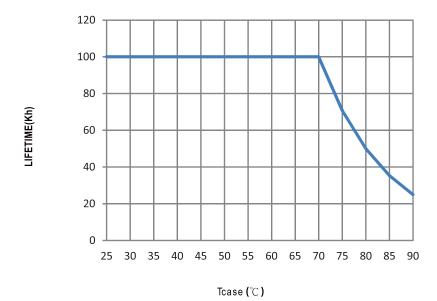
 $\rm HLG\text{-}480H$  series possess superior working efficiency that up to 95.5% can be reached in field applications.

¾ 42V Model, Tcase at 75°C

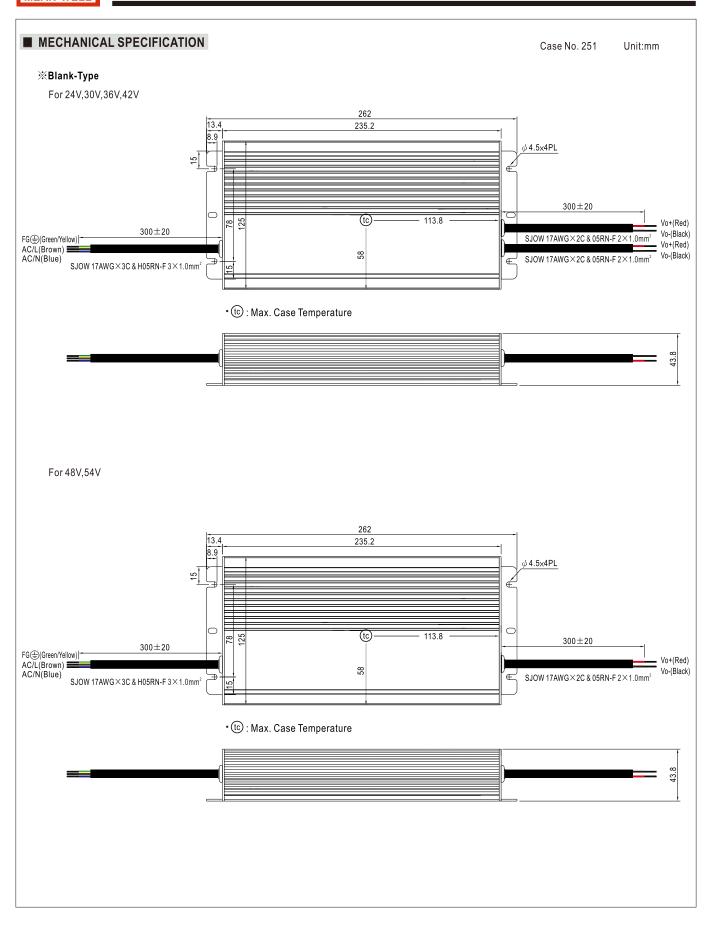


LOAD

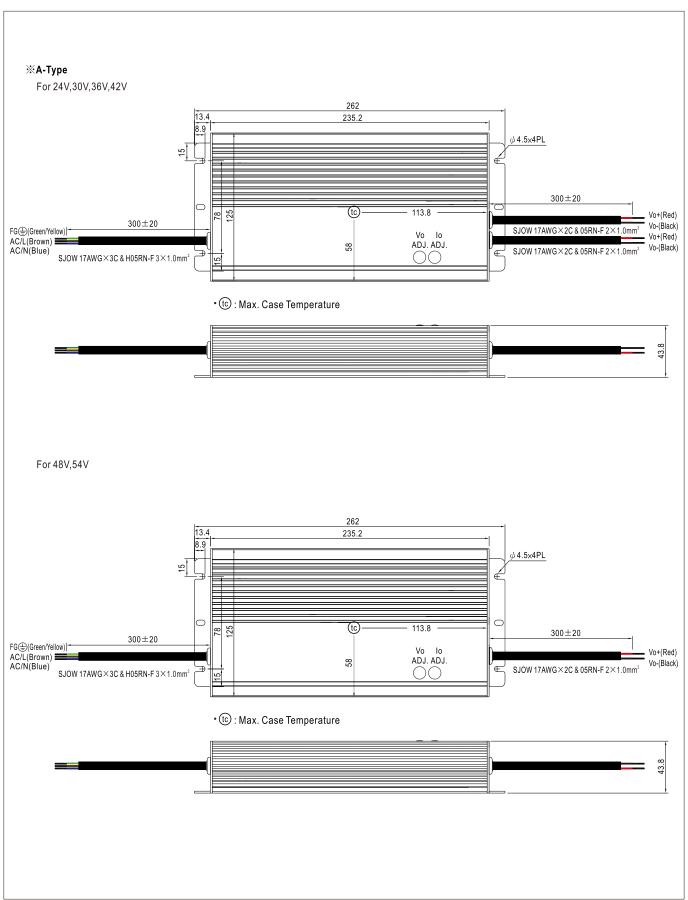




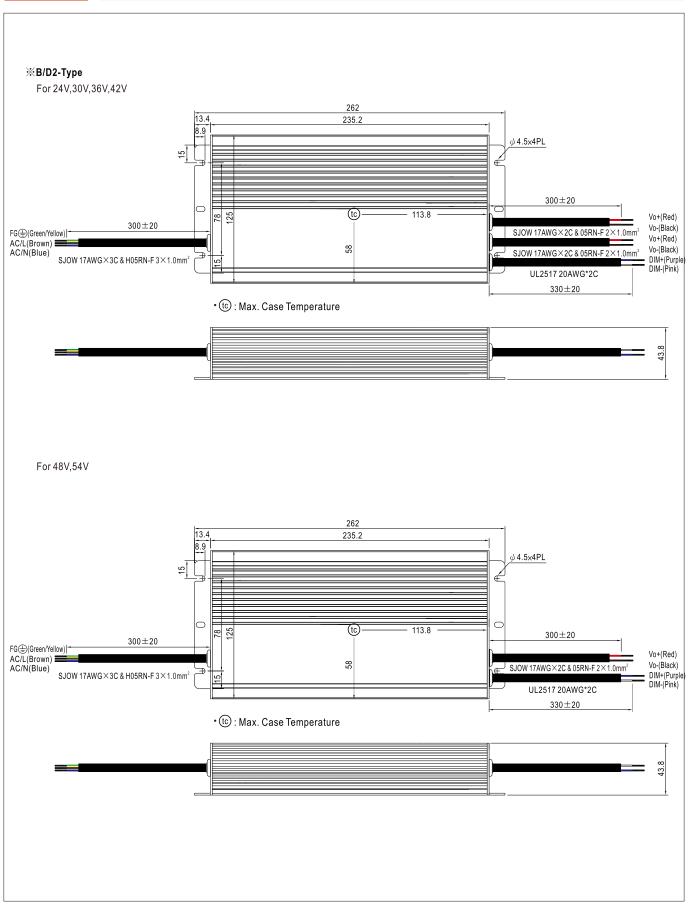
# HLG-480H series



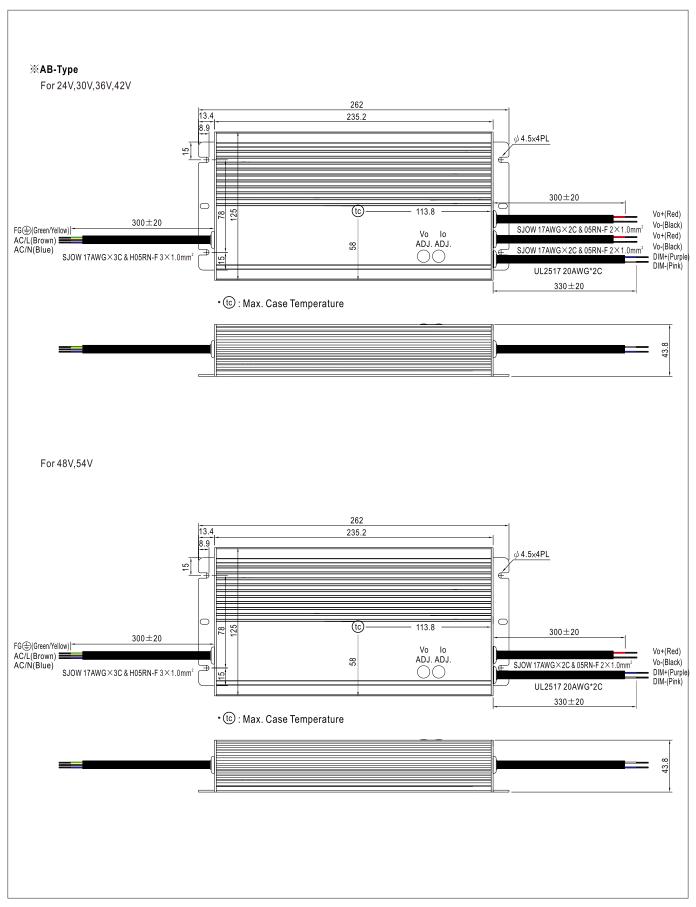




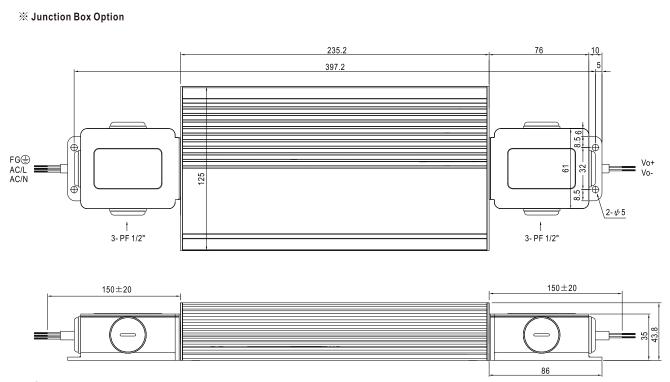












① Junction box option is available for all types. Please contact MEAW WELL for details.

## ■ INSTALLATION MANUAL

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