















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)

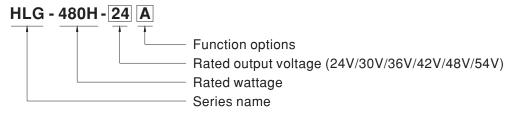
Applications

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

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°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

480W Constant Voltage + Constant Current LED Driver

SPECIFICATION

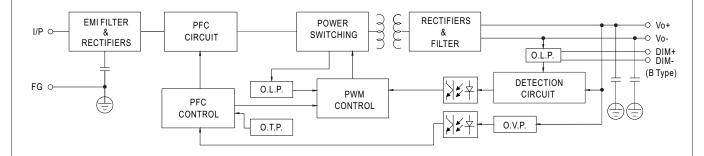
			HLG-480H-24	HLG-480H-30	HLG-480H-36	HLG-480H-42	HLG-480H-48	HLG-480H-54	
	DC VOLTAGE		24V	30V	36V	42V	48V	54V	
	CONSTANT CURRENT	REGION Note.4	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V	
	RATED CURRENT		20A	16A	13.3A	11.4A	10A	8.9A	
	RATED POWER		480W	480W	478.8W	478.8W	480W	480.6W	
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
		,		Adjustable for A/AB-Type only (via built-in potentiometer)					
ОИТРИТ	VOLTAGE ADJ. RANGE CURRENT 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-in potentiometer)						
			10 ~ 20A	8 ~ 16A	6.6 ~ 13.3A	5.7 ~ 11.4A	5 ~ 10A	4.4 ~ 8.9A	
	VOLTAGE TOLERA	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATIO	N	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	ON .	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME		500ms, 80ms 115V		_ = 5.5 %				
	HOLD UP TIME (Ty		16ms 115VAC/23						
	TIOLD OF TIME (1)	γ.,		27 ~ 431VDC					
	VOLTAGE RANGE	Note.5		ATIC CHARACTERIST	FIC" section)				
	EDECIJENCY BAN	EDECUENCY DANCE		THO OHARAOTERIO	no section)				
	FREQUENCY RAN	GE	47 ~ 63Hz	DE >0.07/000\/A.C. DE	>0.0E/077\/A0.01	III la a d			
	POWER FACTOR	(Тур.)	PF≧0.98/115VAC, PF≧0.97/230VAC, PF≧0.95/277VAC @ full load						
			,	WER FACTOR (PF) CH		ction)			
	TOTAL HARMONIC I	DISTORTION	, ,	d≧40% / 115VAC,230	,				
			,	OTAL HARMONIC DIS	1				
NPUT	EFFICIENCY	230VAC	94%	94.5%	95%	95%	94.5%	95%	
	(Typ.)	277VAC	94.5%	95%	95.5%	95.5%	95%	95%	
	AC CURRENT (Ty	o.)	5A / 115VAC 2.45A / 230VAC 2A / 277VAC						
	INRUSH CURREN	Г(Тур.)	COLD START 35A(twidth=1800µs measured at 50% lpeak) at 230VAC; Per NEMA 410						
	LEAKAGE CURRE	NT	<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						
	OVED CURRENT	OVER SUBBENE		95 ~ 108%					
	OVER CURRENT		Constant current limiting, recovers automatically after fault condition is removed						
	1		Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT			niting, recovers automa	atically after fault cond	dition is removed			
PROTECTION	SHORT CIRCUIT			niting, recovers automa	atically after fault cond	dition is removed 46 ~ 55V	53 ~ 63V	60 ~ 70V	
PROTECTION	SHORT CIRCUIT OVER VOLTAGE		Constant current lin 27 ~ 33V	33 ~ 40V	40 ~ 50V		53 ~ 63V	60 ~ 70V	
PROTECTION	OVER VOLTAGE	IIRE	Constant current lin 27 ~ 33V Shut down output vo	33 ~ 40V oltage, re-power on to	40 ~ 50V recovery		53 ~ 63V	60 ~ 70V	
PROTECTION	OVER VOLTAGE OVER TEMPERAT	URE	Constant current lin 27 ~ 33V Shut down output vo Shut down output vo	33 ~ 40V oltage, re-power on to roltage, re-power on to	40 ~ 50V recovery o recovery	46 ~ 55V		60 ~ 70V	
PROTECTION	OVER VOLTAGE OVER TEMPERAT WORKING TEMP.		Constant current lin 27 ~ 33V Shut down output v Shut down output v Tcase= -40 ~ +90°C	33 ~ 40V oltage, re-power on to	40 ~ 50V recovery o recovery	46 ~ 55V		60 ~ 70V	
PROTECTION	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMP).	Constant current lin 27 ~ 33V Shut down output vo Shut down output vo Tcase= -40 ~ +90°C Tcase= +90°C	33 ~ 40V oltage, re-power on to roltage, re-power on to C (Please refer to "OU	40 ~ 50V recovery o recovery	46 ~ 55V		60 ~ 70V	
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	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMP WORKING HUMID STORAGE TEMP.,	O. ITY HUMIDITY	Constant current lin $27 \sim 33V$ Shut down output v. Shut down output v. Tcase= -40 \sim +90°C Tcase= +90°C $20 \sim 95\%$ RH non-c $-40 \sim +80$ °C, $10 \sim 9$	33 ~ 40V oltage, re-power on to roltage, re-power on to C (Please refer to "OU condensing 5% RH non-condensing	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM	46 ~ 55V		60 ~ 70V	
	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE	O. ITY HUMIDITY	Constant current lin $27 \sim 33V$ Shut down output von Shut down output von Tcase= $-40 \sim +90^{\circ}C$ $20 \sim 95\%$ RH non-cond $-40 \sim +80^{\circ}C$, $10 \sim 9$ $\pm 0.02\%$ C (0 ~ 600	33 ~ 40V oltage, re-power on to roltage, re-power on to coltage, re-power on to C (Please refer to "OU condensing 5% RH non-condensing "C)	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM	46 ~ 55V PERATURE" section		60 ~ 70V	
PROTECTION	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMP WORKING HUMID STORAGE TEMP.,	O. ITY HUMIDITY	Constant current lin $27 \sim 33V$ Shut down output von Shut down output von Tcase= $-40 \sim +90^{\circ}C$ $20 \sim 95\%$ RH non-cond $-40 \sim +80^{\circ}C$, $10 \sim 9$ $\pm 0.02\%$ C (0 ~ 600	33 ~ 40V oltage, re-power on to roltage, re-power on to C (Please refer to "OU condensing 5% RH non-condensing	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM	46 ~ 55V PERATURE" section		60 ~ 70V	
	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE	P. ITY HUMIDITY NT	Constant current lin 27 ~ 33V Shut down output vor Shut down output vor Tcase= -40 ~ +90°C $20 \sim 95\%$ RH non-c-40 ~ +80°C, 10 ~ 9 $\pm 0.02\%$ °C (0 ~ 60 $10 \sim 500$ Hz, 5G 12r UL8750(type"HL"), GB19510.14,GB195	33 ~ 40V oltage, re-power on to coltage, re-power on	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM 72min. each along X, 1-12; ENEC BS EN/EN	Y, Z axes 161347-1, BS EN/EN6 6 IEC 61347.2.13:201:	1347-2-13 independer 3,AS/NZS 61347.1:20	nt, BS EN/EN62384;	
	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION	D. HUMIDITY NT RDS	Constant current lin 27 ~ 33V Shut down output vor Shut down output vor Tcase= -40 ~ +90°C $20 \sim 95\%$ RH non-c-40 ~ +80°C, 10 ~ 9 $\pm 0.02\%$ °C (0 ~ 60 10 ~ 500Hz, 5G 12r UL8750(type"HL"), GB19510.14,GB195 KC61347-2-13(excr	33 ~ 40V Oltage, re-power on to roltage, re-power on to rollage, re-power on	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM 72min. each along X, -12; ENEC BS EN/EN AC TP TC 004,AS/NZS, , J61347-1(H29), J61	Y, Z axes 161347-1, BS EN/EN6 6 IEC 61347.2.13:201:	1347-2-13 independer 3,AS/NZS 61347.1:20	nt, BS EN/EN62384;	
NVIRONMENT	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAI	D. HUMIDITY NT RDS	Constant current lin 27 ~ 33V Shut down output ve Shut down output ve 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 12r UL8750(type"HL"), GB19510.14, GB193; KC61347-2-13(exce	33 ~ 40V oltage, re-power on to roltage, re-power on the roltage, re-power on to rollage, re	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM 72min. each along X, 1-12; ENEC BS EN/EN C TP TC 004,AS/NZS, J61347-1(H29), J61 D/P-FG:1.5KVAC	Y, Z axes 161347-1, BS EN/EN6 6 IEC 61347.2.13:201: 347-2-13(H29)(for Bla	1347-2-13 independer 3,AS/NZS 61347.1:20	nt, BS EN/EN62384;	
	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAI WITHSTAND VOLT	D. HUMIDITY NT RDS	Constant current lin 27 ~ 33V Shut down output ve Shut down output ve 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 12r UL8750(type"HL"), GB19510.14, GB193 KC61347-2-13(excellar) I/P-O/P:3.75KVAC	33 ~ 40V oltage, re-power on to roltage, re-power on the roltage, re-power on the roltage of roltage of roltage, re-power on the roltage of roltage of roltage, re-power on the roltage of roltage	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM 19 72min. each along X, 1-12; ENEC BS EN/EN AC TP TC 004,AS/NZS, J 61347-1(H29), J61 O/P-FG:1.5KVAC	Y, Z axes 161347-1, BS EN/EN6 6 IEC 61347.2.13:201:347-2-13(H29)(for Bla	1347-2-13 independer 3,AS/NZS 61347.1:20 nk/A-type) approved	nt, BS EN/EN62384; 16;KC61347-1,	
NVIRONMENT	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAI WITHSTAND VOLT	D. HUMIDITY NT RDS	Constant current lin 27 ~ 33V Shut down output ve Shut down output ve Tcase= -40 ~ +90°C 7	33 ~ 40V oltage, re-power on to oltage, re-power on to oltage, re-power	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM 72min. each along X, 1-12; ENEC BS EN/EN AC TP TC 004,AS/NZS, J61347-1(H29), J61 O/P-FG:1.5KVAC 00VDC / 25°C / 70% FEN61000-3-2 Class	Y, Z axes 161347-1, BS EN/EN6 6 IEC 61347.2.13:201: 347-2-13(H29)(for Bla	1347-2-13 independer 3,AS/NZS 61347.1:20 nk/A-type) approved S EN/EN61000-3-3;C	nt, BS EN/EN62384; 16;KC61347-1,	
NVIRONMENT	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAI WITHSTAND VOLT ISOLATION RESIS	D. HUMIDITY NT RDS	Constant current lin 27 ~ 33V Shut down output v 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 12r UL8750(type"HL"), GB19510.14,GB19; KC61347-2-13(exc I/P-O/P;3.75KVAC I/P-O/P, I/P-FG, O/ Compliance to BS EAC TP TC 020;KC Compliance to BS	33 ~ 40V oltage, re-power on to oltage, re-power oltage, re-powe	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM 72min. each along X, 1-12; ENEC BS EN/EN AC TP TC 004,AS/NZS, 1, J61347-1(H29), J61 D/P-FG:1.5KVAC 00VDC / 25°C / 70% F EN61000-3-2 Class ept for AB,Dx,D2-typ 5,6,8,11, BS EN/EN	Y, Z axes 161347-1, BS EN/EN6 1616347-2-13(H29)(for Black RH C (@ load≥50%); Be e),J55015(H29)(for E 61547, light industry	1347-2-13 independer 3,AS/NZS 61347.1:20 nk/A-type) approved S EN/EN61000-3-3;G Blank/A-type) level (surge immunity	nt, BS EN/EN62384; 16;KC61347-1, GB17743, GB17625	
NVIRONMENT	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAI WITHSTAND VOLT ISOLATION RESIS EMC EMISSION EMC IMMUNITY	D. HUMIDITY NT RDS	Constant current lin 27 ~ 33V Shut down output von the state of the s	33 ~ 40V oltage, re-power on to roltage, re-power on the roltage of roltage, re-power on the roltage of roltage of roltage, re-power on the roltage of roltage of roltage, re-power on the roltage of	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM 72min. each along X, 6-12; ENEC BS EN/EN AC TP TC 004,AS/NZS, J61347-1(H29), J61 D/P-FG:1.5KVAC 00VDC / 25°C / 70% F EN61000-3-2 Class ept for AB,Dx,D2-typ ,5,6,8,11, BS EN/EN 5,KN61547(except f	Y, Z axes 161347-1, BS EN/EN6 16 EC 61347-2.13:201: 347-2-13(H29)(for Black RH C (@ load≧50%); B e),J55015(H29)(for E 61547, light industry or AB,Dx,D2-type),J8	1347-2-13 independer 3,AS/NZS 61347.1:20 ink/A-type) approved S EN/EN61000-3-3;C Blank/A-type) level (surge immunity 55015(H29)(for Blank	nt, BS EN/EN62384; 16;KC61347-1, GB17743, GB17625	
NVIRONMENT SAFETY & EMC	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAI WITHSTAND VOLT ISOLATION RESIS EMC EMISSION EMC IMMUNITY MTBF	D. HUMIDITY NT RDS	Constant current lin 27 ~ 33V Shut down output von Shut down output von Case= -40 ~ +90°C Tcase= +90°C 20 ~ 95% RH non-c-40 ~ +80°C, 10 ~ 90 ±0.02%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12r UL8750(type"HL"), GB19510.14,	33 ~ 40V oltage, re-power on to roltage, re-power on the roltage of roltage of roltage, re-power on the roltage of roltage of roltage, re-power on the roltage of roltage of roltage of roltage of roltage, re-power on the roltage of r	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM 72min. each along X, 6-12; ENEC BS EN/EN AC TP TC 004,AS/NZS, J61347-1(H29), J61 D/P-FG:1.5KVAC 00VDC / 25°C / 70% F EN61000-3-2 Class ept for AB,Dx,D2-typ ,5,6,8,11, BS EN/EN 5,KN61547(except f	Y, Z axes 161347-1, BS EN/EN6 16 EC 61347-2.13:201: 347-2-13(H29)(for Black RH C (@ load≧50%); B e),J55015(H29)(for E 61547, light industry or AB,Dx,D2-type),J8	1347-2-13 independer 3,AS/NZS 61347.1:20 ink/A-type) approved S EN/EN61000-3-3;C Blank/A-type) level (surge immunity 55015(H29)(for Blank	nt, BS EN/EN62384; 16;KC61347-1, GB17743, GB17625	
NVIRONMENT	OVER VOLTAGE OVER TEMPERAT WORKING TEMP. MAX. CASE TEMF WORKING HUMID STORAGE TEMP., TEMP. COEFFICIE VIBRATION SAFETY STANDAI WITHSTAND VOLT ISOLATION RESIS EMC EMISSION EMC IMMUNITY	D. HUMIDITY NT RDS	Constant current lin 27 ~ 33V Shut down output von the state of the s	33 ~ 40V oltage, re-power on to roltage, re-power on the roltage of roltage, re-power on the roltage of roltage of roltage, re-power on the roltage of roltage of roltage, re-power on the roltage of	40 ~ 50V recovery o recovery ITPUT LOAD vs TEM 72min. each along X, 6-12; ENEC BS EN/EN AC TP TC 004,AS/NZS, J61347-1(H29), J61 D/P-FG:1.5KVAC 00VDC / 25°C / 70% F EN61000-3-2 Class ept for AB,Dx,D2-typ ,5,6,8,11, BS EN/EN 5,KN61547(except f	Y, Z axes 161347-1, BS EN/EN6 16 EC 61347-2.13:201: 347-2-13(H29)(for Black RH C (@ load≧50%); B e),J55015(H29)(for E 61547, light industry or AB,Dx,D2-type),J8	1347-2-13 independer 3,AS/NZS 61347.1:20 ink/A-type) approved S EN/EN61000-3-3;C Blank/A-type) level (surge immunity 55015(H29)(for Blank	nt, BS EN/EN62384; 16;KC61347-1, GB17743, 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 (c) 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 2021-12-07



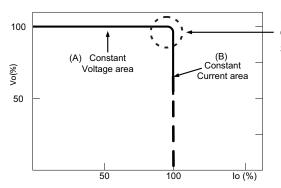
■ BLOCK DIAGRAM

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.

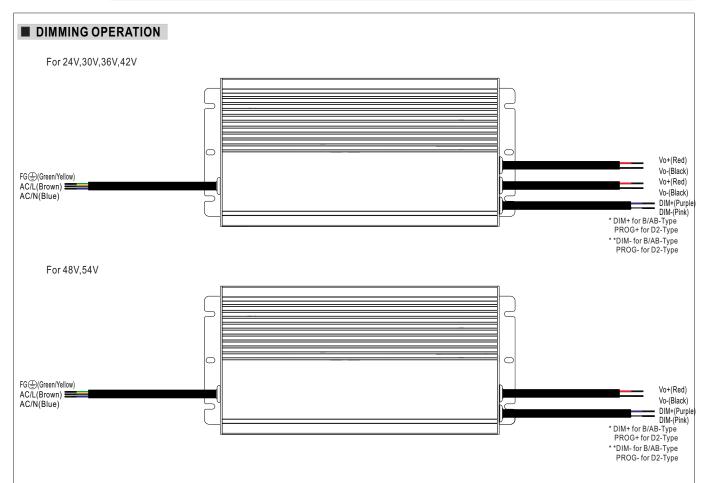


Typical output current normalized by rated current (%)

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.

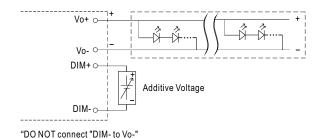


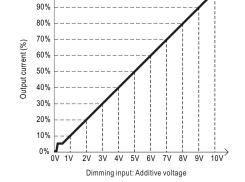


imes 3 in 1 dimming function (for B/AB-Type)

- 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.)

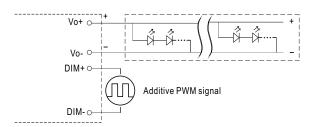
O Applying additive 0 ~ 10VDC



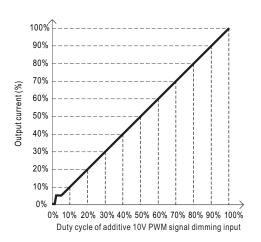


100%

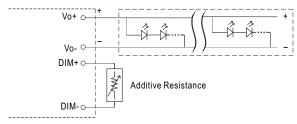
O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



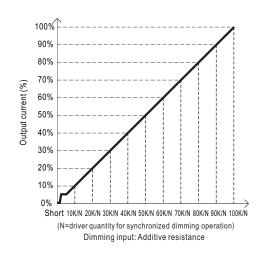
"DO NOT connect "DIM- to Vo+"



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%.

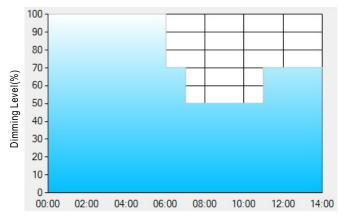
2. The output current could drop down to 0% when dimming input is about 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.



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:

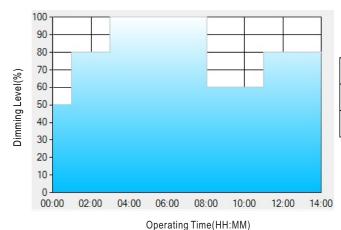
	T1	T2	Т3	T4
TIME**	06:00	07:00	11:00	
LEVEL**	100%	70%	50%	70%

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%

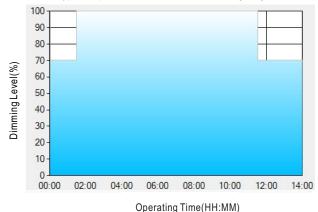
**: TIME matches Operating Time in the diagram whereas LEVEL matches Dimming Level.

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.

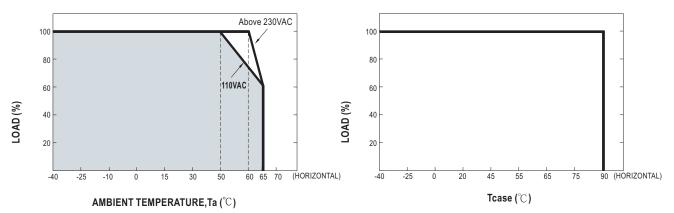
 $\textbf{Example: If a tunnel lighting application adopts D03-Type, when turning on the power supply at 4:30pm, for instance: \\$

- [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)

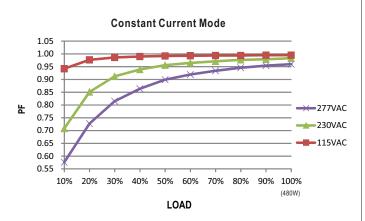


◎ If HLG-480H operates in constant current mode with the rated current, the maximum workable Ta is 60°C. (Typ. 230VAC)

■ STATIC CHARACTERISTICS

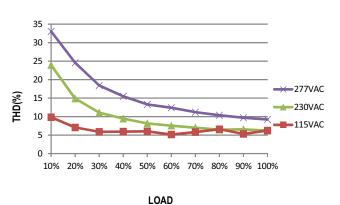
■ POWER FACTOR(PF) CHARACTERISTIC

★ Tcase at 75°C



■ TOTAL HARMONIC DISTORTION (THD)

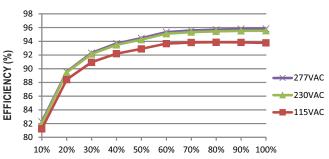
¾ 42V Model, Tcase at 75°C



■ EFFICIENCY vs LOAD

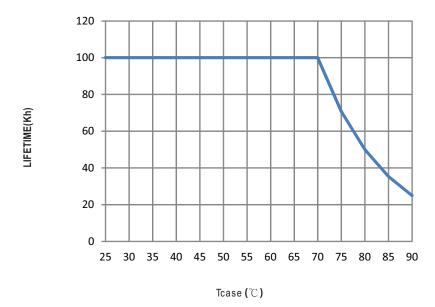
HLG-480H series possess superior working efficiency that up to 95.5% can be reached in field applications.

¾ 42V Model, Tcase at 75°C

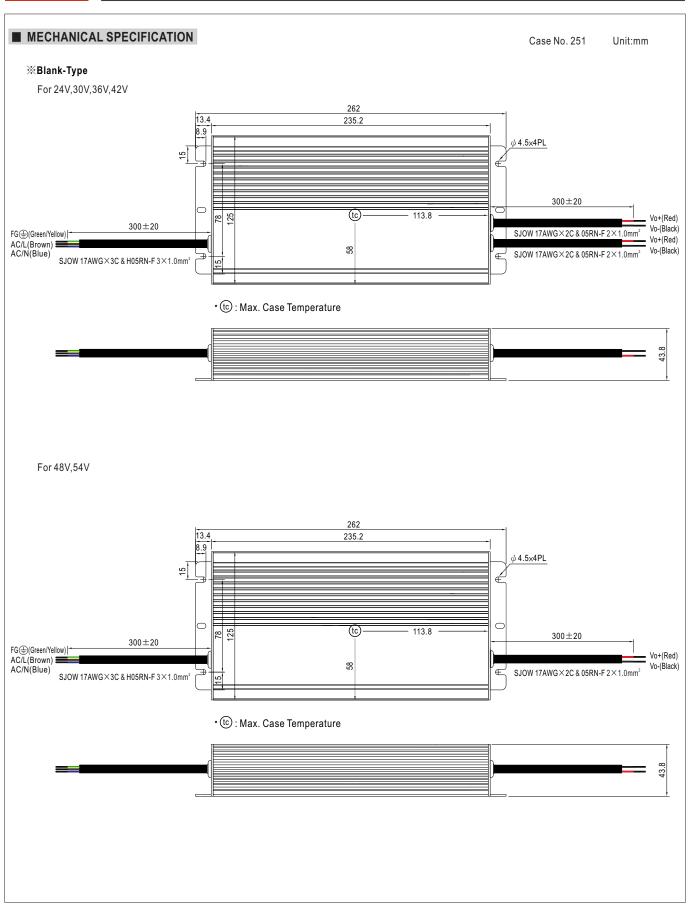


LOAD

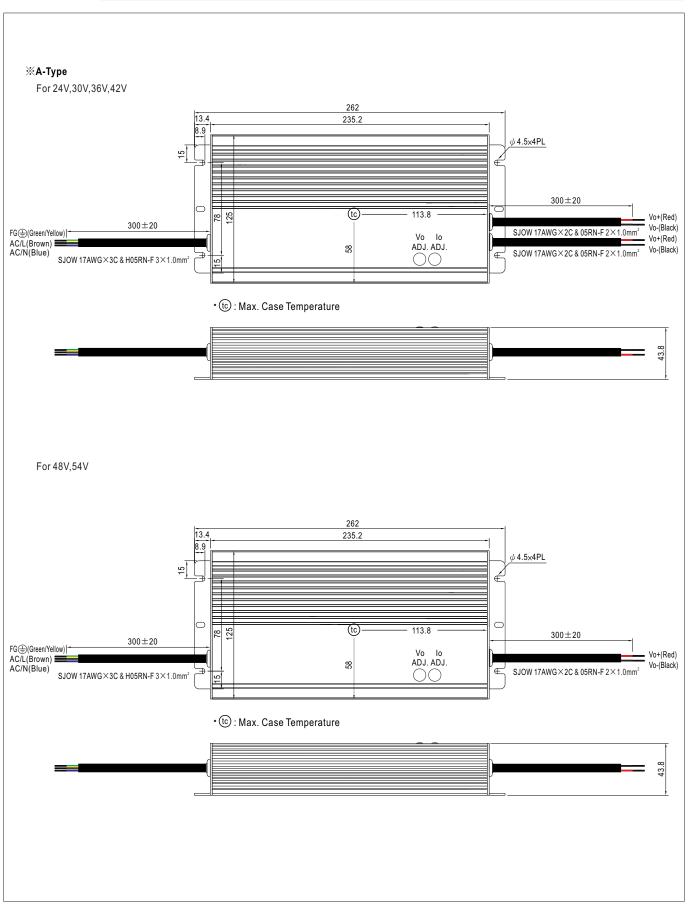
■ LIFE TIME



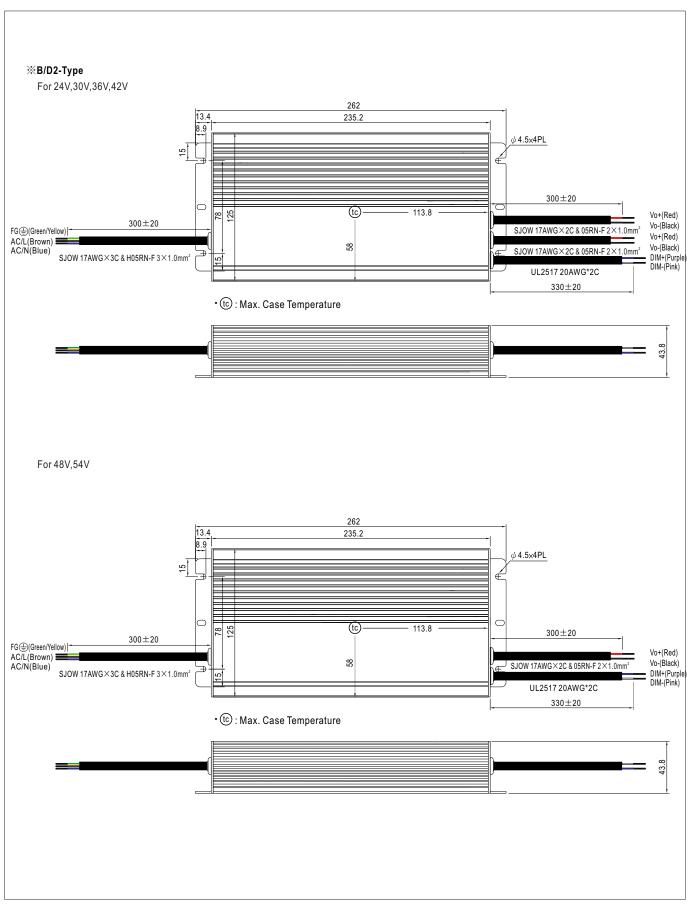




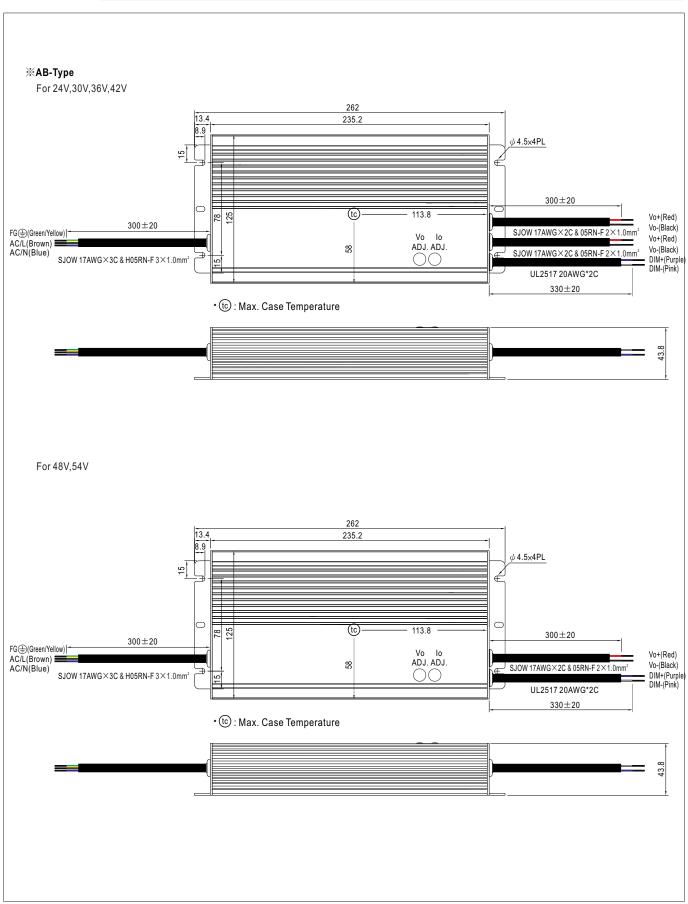




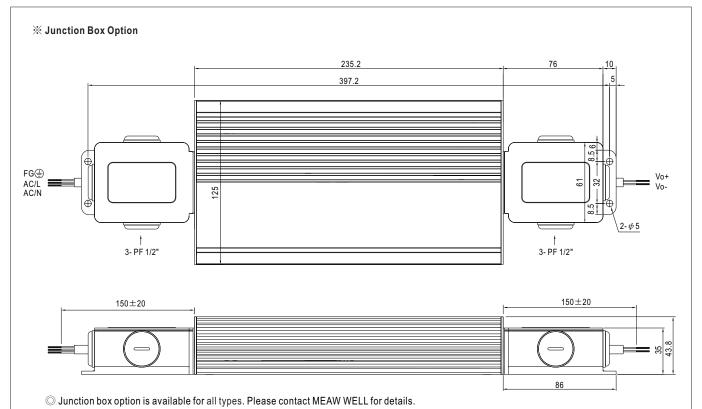












■ INSTALLATION MANUAL

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