



Наличие и актуальные цены на

**XLG-240-M-AB**

<https://www.mean-well.ru/store/XLG-240-M-AB/>



Except for M/L type



SELV IP67

Except for M/L type



Note.13



Type HL



Note.14



Note.15



(Except for 48V)



(Except for 48V)



(Except for 48V/Blank type)



Note.19

## Features

- Wide input range 100~305V AC( Class I)
- Full power output at 70~100% Constant power mode operation
- Metal case with IP67, suitable for outdoor application
- Surge protection with 6KV/4KV (10KV/6KV optional)
- 3 in 1 dimming function (Dim to off and Isolation design)
- India (EESL) version, can survive input voltage stress of 440Vac for 48 hours
- Protection functions: OVP/SCP/OCP/OTP
- Life time >50,000 hrs. and 5 years warranty

## Applications

- Skyscraper lighting
- Street lighting
- Floodlight Lighting
- Stage lighting
- Fishing lighting
- Horticulture lighting
- Bay lighting
- LED strip lighting (ABV type)
- Agricultural lighting (ABV type)
- Type HL for use in class I, Division 2

## Description

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

XLG-240 series is a 240W LED AC/DC driver featuring the constant power mode. XLG-240 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 6.66A. Thanks to the high efficiency up to 93%, 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 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. XLG-240 is designed with the latest version of IEC61347/GB19510.1 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the user and luminaire system safety during installation.

## Model Encoding

XLG - 240 I - L -

Function options

Rated output voltage(L/M/H/48V types)

{ I: for India version(by request with Input over voltage protection)

{ : For standard version

Rated wattage

Series name

Type	Function	Note
Blank	Io and Vo fixed.(For harsh environment)	By request
A	Io adjustable via built-in potentiometer	In Stock
AB	Io adjustable via built-in potentiometer + 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
ABV (48V only)	Vo adjustable via built-in potentiometer + 3 in 1 dimming function (Flicker free C.V. Dimming)	In Stock

Note: 1. India version needs MOQ for production, please consult MEANWELL for detail.

2. 48-V/48-BV types are available by modification version, please consult MEANWELL for detail.

**SPECIFICATION**

MODEL		XLG-240□-L-□		XLG-240□-M-□		XLG-240□-H-□	
OUTPUT	RATED CURRENT (Default)	700mA		1400mA		4900mA	
	RATED POWER	239.4W		239.4W		239.6W	
	CONSTANT CURRENT REGION <small>Note.2</small>	178~ 342V		90 ~171V		27 ~ 56V	
	FULL POWER CURRENT RANGE	700~1050mA		1400~2100mA		4280~6660mA	
	OPEN CIRCUIT VOLTAGE (max.)	370V		186V		60V	
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via the built-in potentiometer)					
		350~1050mA		700~2100mA		2400~6660mA	
	CURRENT RIPPLE	5.0%(@ Load≥50% rated voltage)					
	CURRENT TOLERANCE	±4%					
SET UP TIME <small>Note.6</small>	500ms/230VAC, 1200ms/115VAC						
INPUT	VOLTAGE RANGE <small>Note.5</small>	100 ~ 305VAC    142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" and " DRIVING METHODS OF LED MODULE"section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF≥0.97 / 115VAC, PF≥0.95 / 230VAC, PF≥0.92 / 277VAC at full load (Please refer to "Power Factor Characteristic" section)					
	TOTAL HARMONIC DISTORTION	THD< 10% (@ load≥50% at 115VAC/230VAC ,@load≥75% at 277VAC) Please refer to "TOTAL HARMONIC DISTORTION (THD)" section					
	EFFICIENCY (Typ.)	93%		92.5%		91%	
	AC CURRENT (Typ.)	2.7A / 115VAC    1.3A / 230VAC    1.1A / 277VAC					
	INRUSH CURRENT(Typ.)	COLD START 85A(twidth=500μs measured at 50% Ipeak) at 230VAC; Per NEMA 410					
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	2 unit(circuit breaker of type B) / 4 units(circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W for AB-Type(Dimming OFF)(for standard version)					
PROTECTION	SHORT CIRCUIT	Hiccup mode or constant current limiting, recovers automatically after fault condition is removed					
	OVER VOLTAGE	380 ~ 450V		190~ 240V		61 ~ 85V	
		Shut down output voltage, re-power on to recovery					
	INPUT OVER VOLTAGE <small>Note.7</small>	320 ~ 390VAC (Shut down output when the input exceeds protection voltage,recovers automatically after fault condition is removed) Can survive input voltage stress of 440Vac for 48 hours					
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover					
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +90℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+90℃					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
SAFETY & EMC (Note 8)	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; GB19510.1, GB19510.14; EAC TP TC 004; J61347-1(H29), J61347-2-13(H29),KC61347-1,KC61347-2-13,IS15885(Part2/Sec13); NOM-058-SCFI-2017(except for Blank type); IP67 approved					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC    I/P-FG:2KVAC    O/P-FG:1.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH					
	EMC EMISSION	Parameter	Standard		Test Level / Note		
		Conducted	BS EN/EN55015(CISPR15),GB/T 17743		-----		
		Radiated	BS EN/EN55015(CISPR15),GB/T 17743		-----		
		Harmonic Current	BS EN/EN61000-3-2 , GB17625.1		Class C @load≥50%		
		Voltage Flicker	BS EN/EN61000-3-3		-----		
	EMC IMMUNITY	BS EN/EN61547					
		Parameter	Standard		Test Level / Note		
		ESD	BS EN/EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3		Level 2		
		EFT / Burst	BS EN/EN61000-4-4		Level 3		
		Surge	BS EN/EN61000-4-5		4KV/Line-Line 6KV/Line-Earth(6K/10K option)		
		Conducted	BS EN/EN61000-4-6		Level 2		
		Magnetic Field	BS EN/EN61000-4-8		Level 4		
		Voltage Dips and Interruptions	BS EN/EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	2496.2K hrs min.    Telcordia SR-332(Bellcore) ;    219.8K hrs min.    MIL-HDBK-217F (25℃)					
	DIMENSION	219*63*35.5mm (L*W*H)					
	PACKING	1Kg;16pcs / 16Kg / 0.8CUFT					
NOTE		1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 4. Tolerance : includes set up tolerance, line regulation and load regulation. 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.If continually operate with AC on/off in short time , it may causes PWM driver IC into protection status. 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. Only for XLG-240 I series,and Iseries without UL/CSA certificate. 8. 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. (as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> ) 9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly @ point (or TMP, per DLC), is about 75℃ or less. 10. Please refer to the warranty statement on MEAN WELL's website at <a href="http://www.meanwell.com">http://www.meanwell.com</a> 11. 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. 12. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 13. H type:RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations. M,L type:RCM is on a voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1. 14. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information. 15. Some products may not have the BIS logo, please contact your MEAN WELL sales for more information. 16. For any application note and IP water proof function installation caution, please refer our user manual before using. <a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a> 17. When the current adjustment is more than 110% of the rated current, it will be enter the Protection state. 18. It may has an over-shoot status at output current when AC On/Off operate with lower Vf and lower loading conditions. 19. If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details. 20. For A/AB/ABV type need to consider build in using to comply with Type HL application. ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>					

File Name:XLG-240-SPEC 2024-10-11



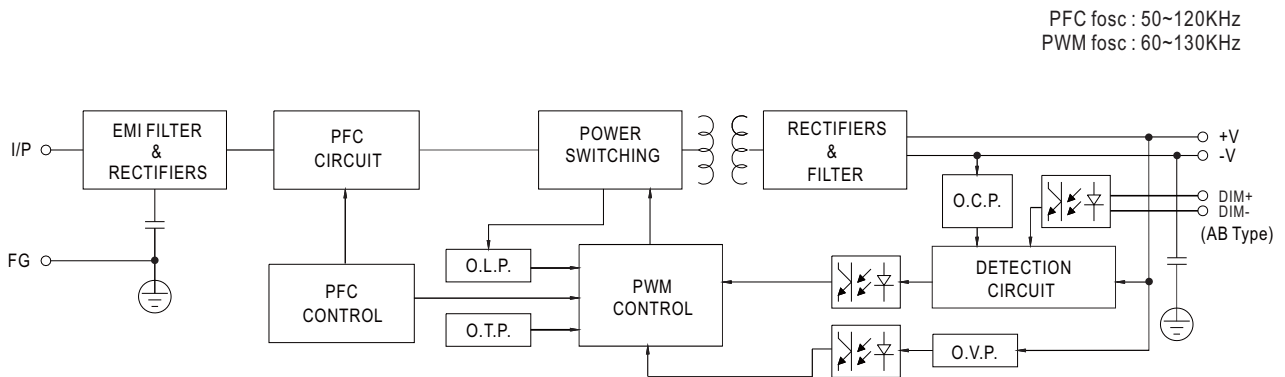
## 240W Constant Voltage LED Driver

## XLG-240 series

### SPECIFICATION

MODEL		XLG-240-48-ABV			
OUTPUT	RATED CURRENT	5A			
	RATED POWER(Max.)	240W			
	DC VOLTAGE	48V (adjustable 43.2~52.8V)			
	RIPPLE & NOISE(max.)	250mVp-p			
	VOLTAGE TOLERANCE	± 2.0%			
	LINE REGULATION	± 0.5%			
	LOAD REGULATION	± 0.5%			
	DIMMING TOLERANCE	± 4%			
SET UP TIME	Note.9	500ms/230VAC, 1200ms/115VAC			
INPUT	VOLTAGE RANGE	110 ~ 305VAC 156VDC ~ 431VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF ≥ 0.97 / 115VAC, PF ≥ 0.95 / 230VAC, PF ≥ 0.92 / 277VAC at full load			
	TOTAL HARMONIC DISTORTION	THD< 10% @ load ≥ 50% at 115VAC/230VAC, @Load>75% at 277VAC;			
	EFFICIENCY (Typ.)	91%			
	AC CURRENT (Typ.)	2.7A / 115VAC 1.3A / 230VAC 1.1A / 277VAC			
	INRUSH CURRENT(Typ.)	COLD START 85A(twidth=500μs measured at 50% Ipeak) at 230VAC; Per NEMA 410			
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	2 unit(circuit breaker of type B) / 4 units(circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	<0.75mA / 277VAC			
STANDBY POWER CONSUMPTION	Standby power consumption <0.5W for ABV/BV-Type(Dimming OFF)(for standard version)				
PROTECTION	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE	54 ~ 60V Shut down output voltage, re-power on to recovery			
	OVER TEMPERATURE	Note.10	Shut down output voltage, re-power on to recover		
	OVER LOAD	105~135% Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed			
ENVIRONMENT	WORKING TEMP.	Tcase=-20 ~ +90℃(Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+90℃			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-20 ~ +80℃, 10 ~ 95% RH non-condensing			
	TEMP. COEFFICIENT	± 0.03%/℃ (0 ~ 60℃)			
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes			
SAFETY & EMC	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; IS15885(Part2/Sec13)(Note 14), GB19510.1, GB19510.14;EAC TP TC 004; IP67 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH			
	EMC EMISSION	Parameter	Standard	Test Level / Note	
		Conducted	BS EN/EN55015(CISPR15),GB/T 17743		-----
		Radiated	BS EN/EN55015(CISPR15),GB/T 17743		-----
		Harmonic Current	BS EN/EN61000-3-2 ,GB17625.1		Class C @load≥50%
		Voltage Flicker	BS EN/EN61000-3-3		-----
	EMC IMMUNITY	BS EN/EN61547			
		Parameter	Standard	Test Level / Note	
		ESD	BS EN/EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact
		Radiated	BS EN/EN61000-4-3		Level 2
		EFT / Burst	BS EN/EN61000-4-4		Level 3
		Surge	BS EN/EN61000-4-5		4KV/Line-Line 6KV/Line-Earth
Conducted		BS EN/EN61000-4-6		Level 2	
Magnetic Field		BS EN/EN61000-4-8		Level 4	
Voltage Dips and Interruptions		BS EN/EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
OTHERS	MTBF	2496.2K hrs min. Telcordia SR-332(Bellcore) ; 219.8K hrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	219*63*35.5mm (L*W*H)			
	PACKING	1Kg;16pcs / 16Kg / 0.8CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. 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. (as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> ) 4. This series meets the typical life expectancy >50,000 hours of operation when Tcase, particularly @ point (or TMP, per DLC), is 70℃ or less. 5. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains. 6. Please refer to the warranty statement on MEAN WELL's website at <a href="http://www.meanwell.com">http://www.meanwell.com</a> 7. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 8. For any application note and IP water proof function installation caution, please refer our user manual before using. <a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a> 9. Products sourced from the Americas regions may not have the ENEC/CCC/KC logo. Please contact your MEAN WELL sales for more information. 10. When the secondary OTP fails, there is also a primary OTP, which is protected by Shut down output voltage, re-power on to recovery. 11. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 12. Please refer to "DRIVING METHODS OF LED MODULE". 13. 48 type:RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations. 14. Products sourced from the China regions may not have the BIS logo, please contact your MEAN WELL sales for more information. 15. For A/AB/ABV type need to consider build in using to comply with Type HL application. ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>				

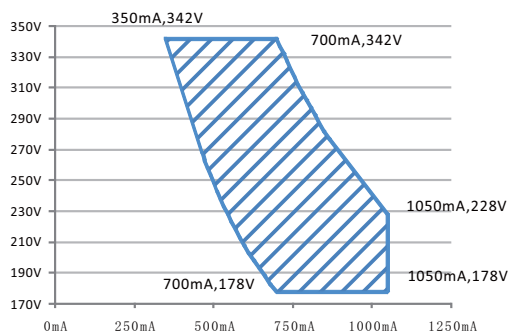
## BLOCK DIAGRAM



## DRIVING METHODS OF LED MODULE

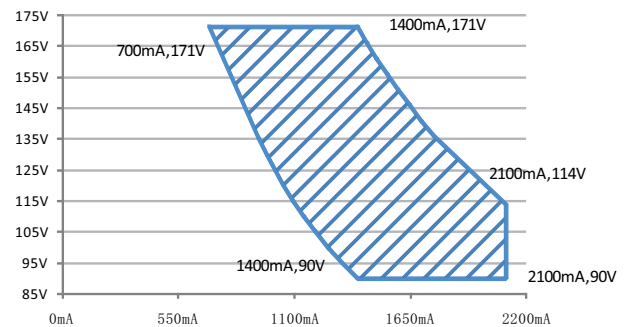
※ I-V Operating Area

◎ XLG-240-L



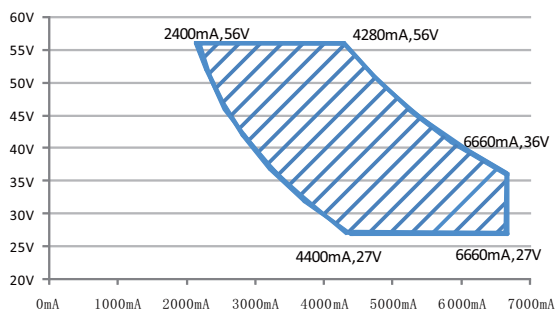
Recommend Performance Region

◎ XLG-240-M



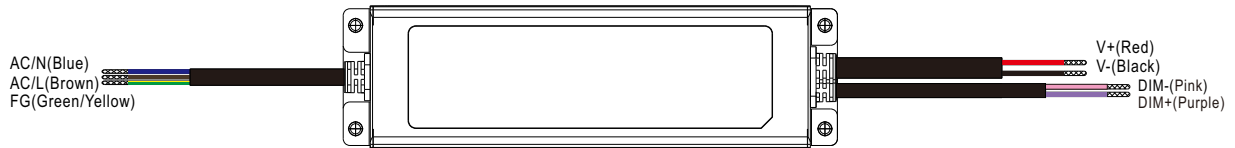
Recommend Performance Region

◎ XLG-240-H



Recommend Performance Region

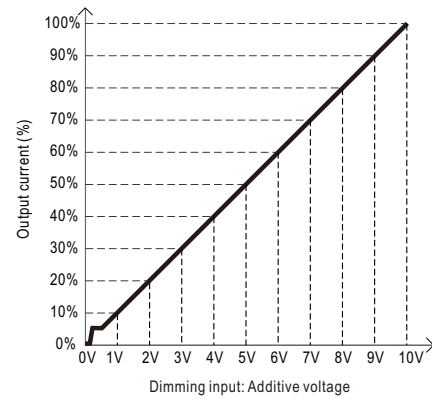
## DIMMING OPERATION



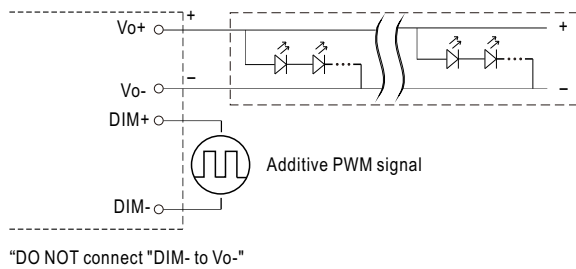
### ※ 3 in 1 dimming function (for AB-Type)

- 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.)

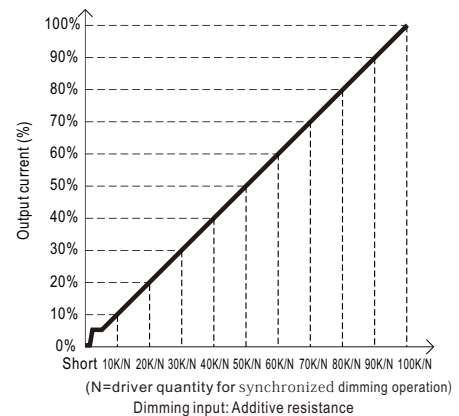
#### ◎ Applying additive 0 ~ 10VDC



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

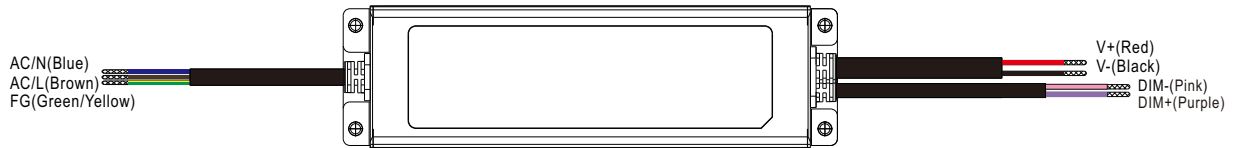


#### ◎ Applying additive resistance:



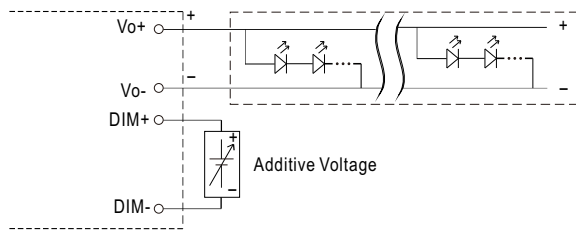
- Note :
- Min. dimming level is about 8% and the output current is not defined when  $0\% < I_{out} < 8\%$ .
  - The output current could drop down to 0% when dimming input is about 0k $\Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.
  - When PWM frequency > 2K HZ, the lighting will be triggered at 10~15% PWM duty.

## DIMMING OPERATION

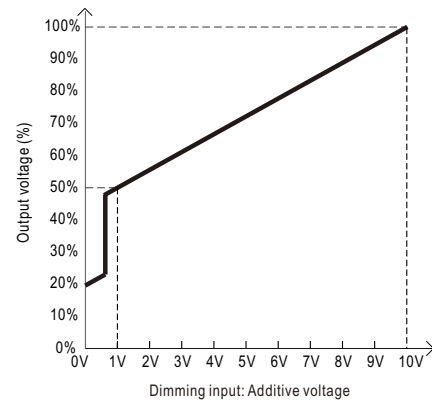


### ※ 3 in 1 dimming function (for ABV-Type)

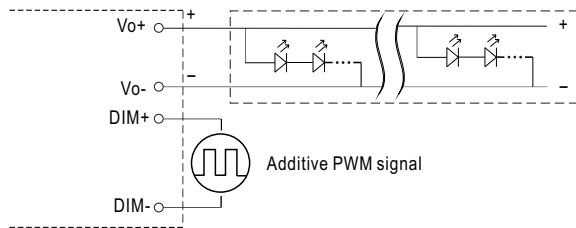
- Output constant voltage can be adjusted by applying one of the three methodologies between DIM+ and DIM-:  
0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100 $\mu$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



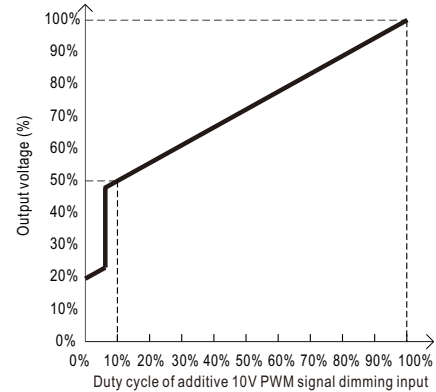
"DO NOT connect "DIM- to Vo-"



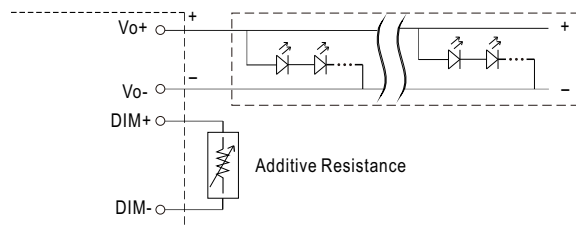
- ◎ Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):



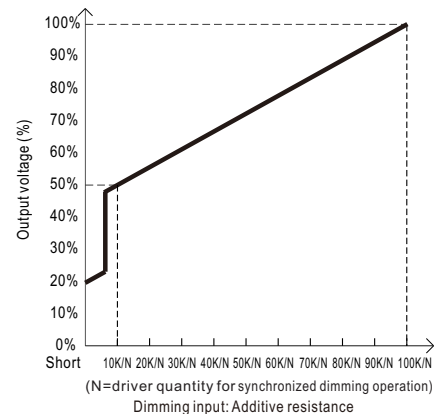
"DO NOT connect "DIM- to Vo-"



- ◎ Applying additive resistance:

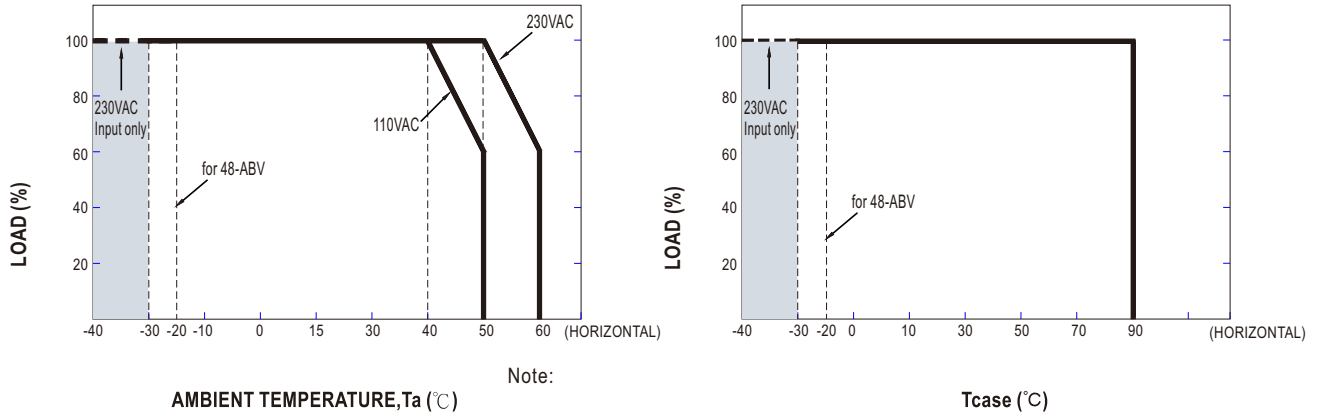


"DO NOT connect "DIM- to Vo-"

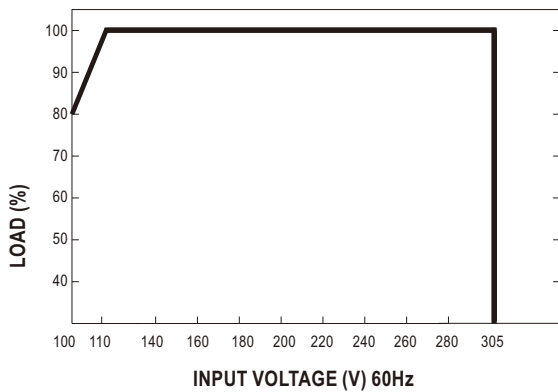


Note : 1. Min. dimming level is about 50% of output voltage and the output voltage is not defined when  $V_{out} < 50\%$   
2. The output voltage could drop down to 0V when dimming input is about 0k or 0Vdc, or 10V PWM signal with 0% duty cycle.

## OUTPUT LOAD vs TEMPERATURE



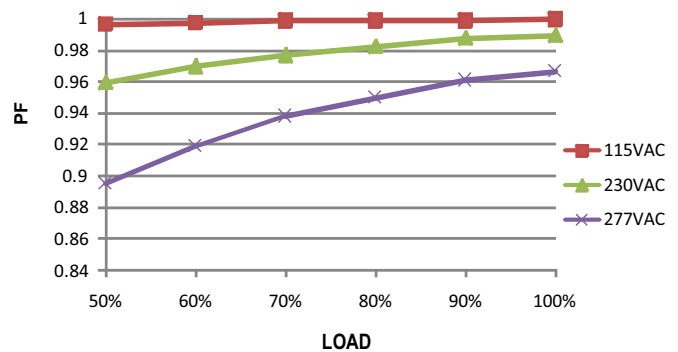
## STATIC CHARACTERISTIC



## POWER FACTOR (PF) CHARACTERISTIC

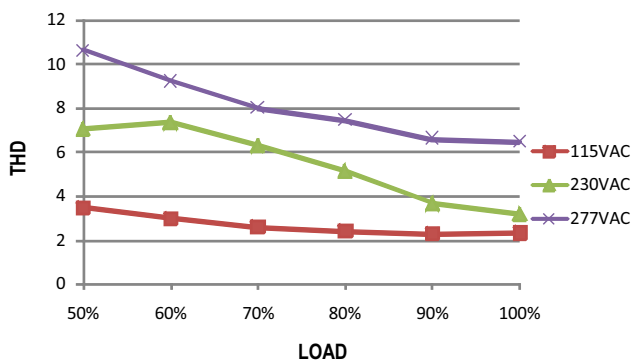
※ Tcase at 75°C

### Constant Current Mode



## TOTAL HARMONIC DISTORTION (THD)

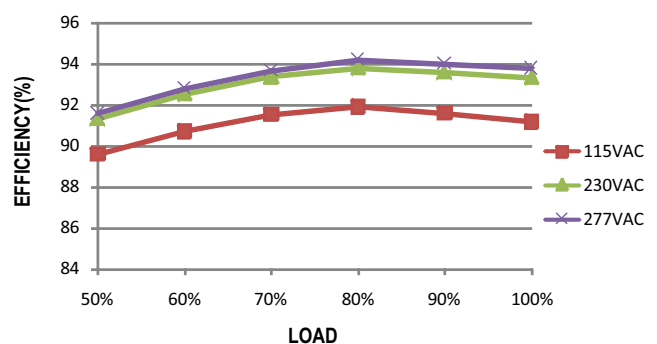
※ XLG-240-L Model, Tcase at 75°C



## EFFICIENCY vs LOAD

XLG-240 series possess superior working efficiency that up to 93% can be reached in field applications.

※ XLG-240-L Model, Tcase at 75°C





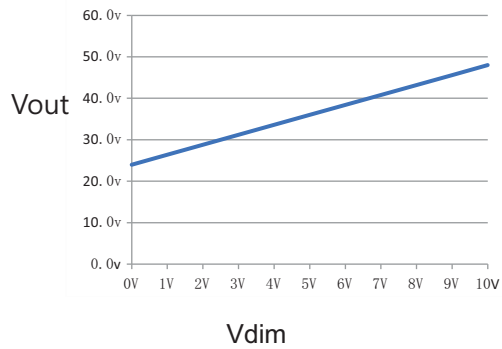
### ■ CONSTANT VOLTAGE DIMMING OPERATION:

48-ABV type

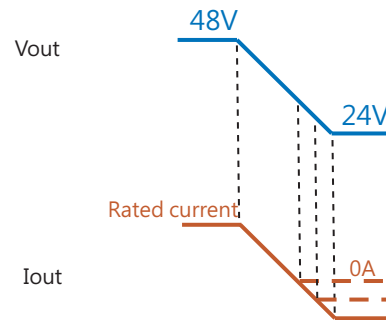
Note: flicker free design for agricultural lighting

flicker free design for Indoor LED strip lighting

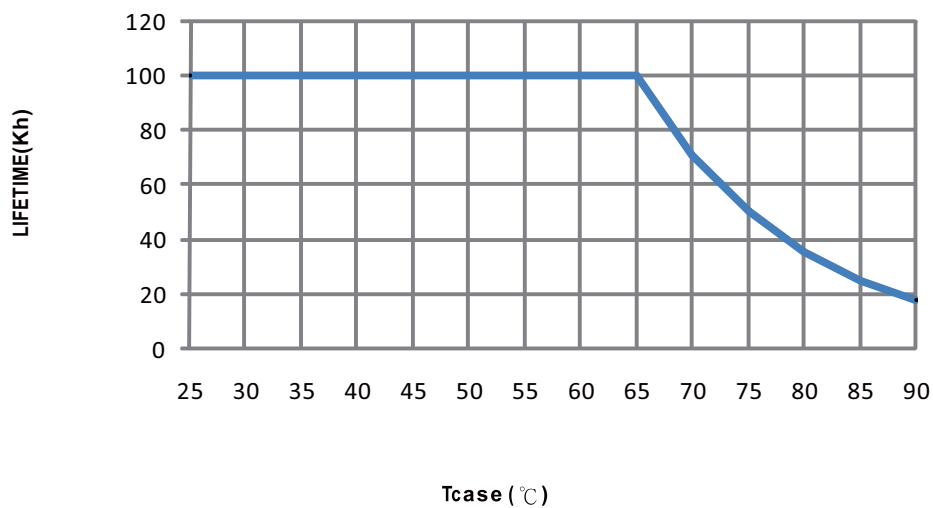
Dimming Curve



DC Voltage Level



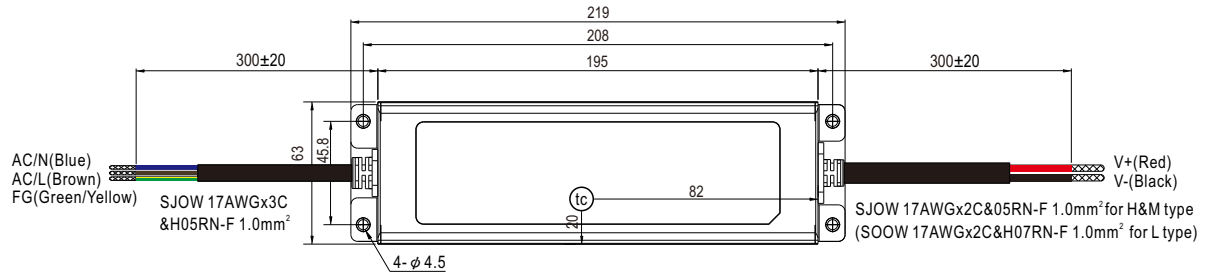
### ■ LIFE TIME



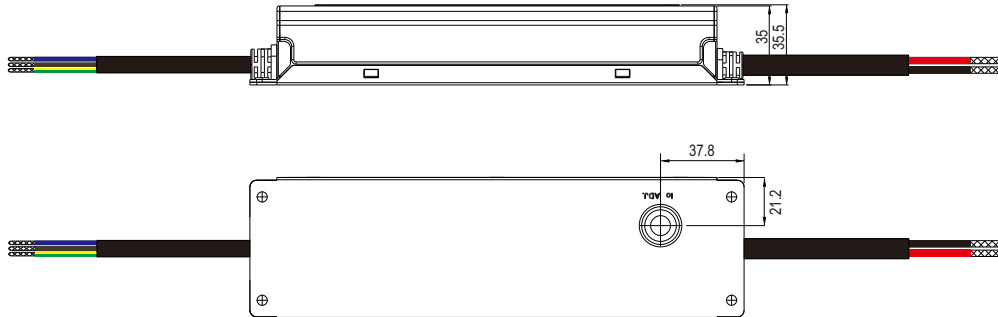
## MECHANICAL SPECIFICATION

Case No.:237 Unit:mm Tolerance:±1

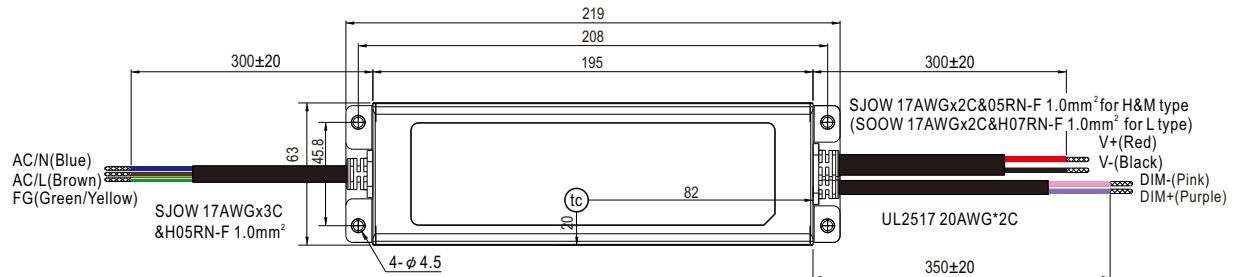
### ※ A-Type



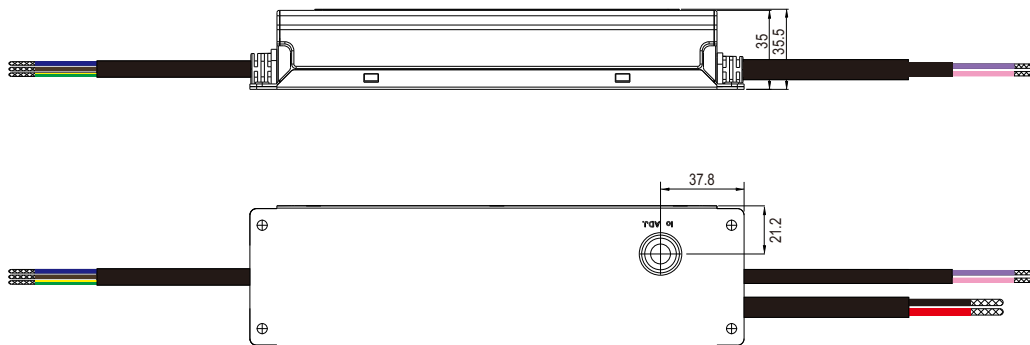
• (tc) : Max. Case Temperature



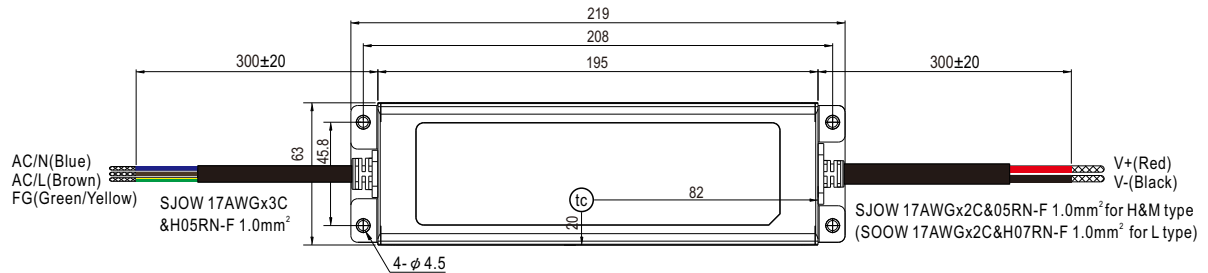
### ※ AB/ABV-Type



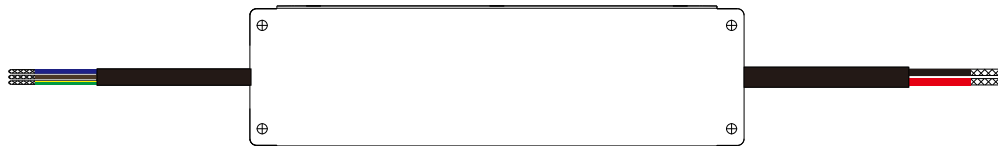
• (tc) : Max. Case Temperature



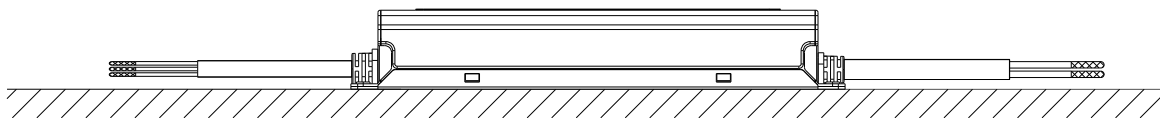
※ Blank-Type



•  $t_c$  : Max. Case Temperature



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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