



Наличие и актуальные цены на

XLG-240-L-AB

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



Except for M/L type



SELV IP67

Except for M/L type



Note.13



Type HL



05



CB



EAC



CE



UK



CCC



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

GTIN CODE

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

Description

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 | |
| | 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 https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) 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 http://www.meanwell.com 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. https://www.meanwell.com/Upload/PDF/LED_EN.pdf 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 https://www.meanwell.com/serviceDisclaimer.aspx | | | | | |

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



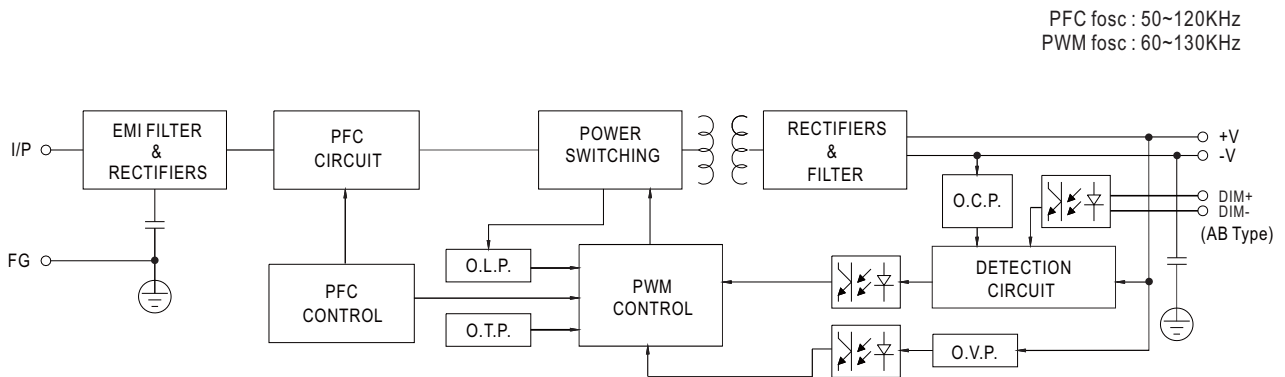
240W Constant Voltage LED Driver

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% |
| | EMC IMMUNITY | Voltage Flicker | BS EN/EN61000-3-3 | | ----- |
| | | 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 | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.</p> <p>2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</p> <p>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 https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)</p> <p>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.</p> <p>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.</p> <p>6. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</p> <p>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).</p> <p>8. 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</p> <p>9. Products sourced from the Americas regions may not have the ENEC/CCC/KC logo. Please contact your MEAN WELL sales for more information.</p> <p>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.</p> <p>11. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>12. Please refer to "DRIVING METHODS OF LED MODULE".</p> <p>13. 48 type:RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations.</p> <p>14. Products sourced from the China regions may not have the BIS logo, please contact your MEAN WELL sales for more information.</p> <p>15. For A/AB/ABV type need to consider build in using to comply with Type HL application.</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p> | | | | |

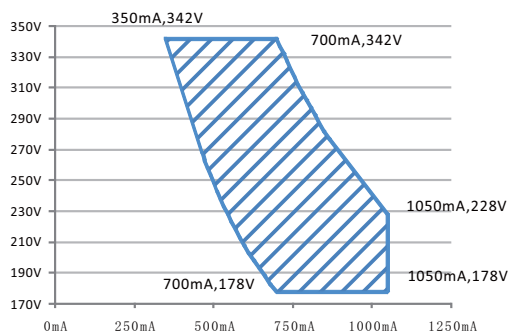
BLOCK DIAGRAM



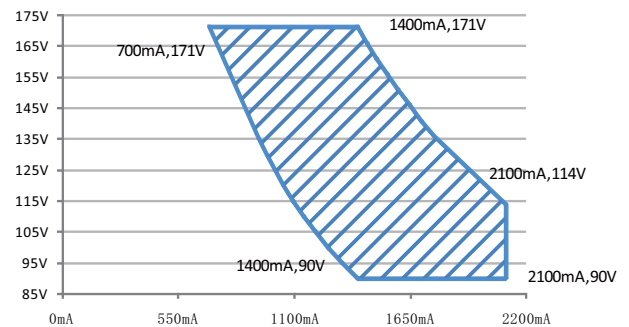
DRIVING METHODS OF LED MODULE

※ I-V Operating Area

◎ XLG-240-L



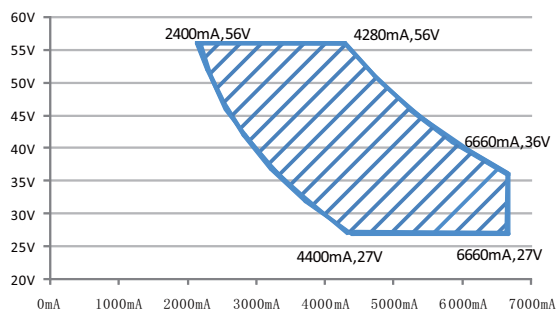
◎ XLG-240-M



Recommend Performance Region

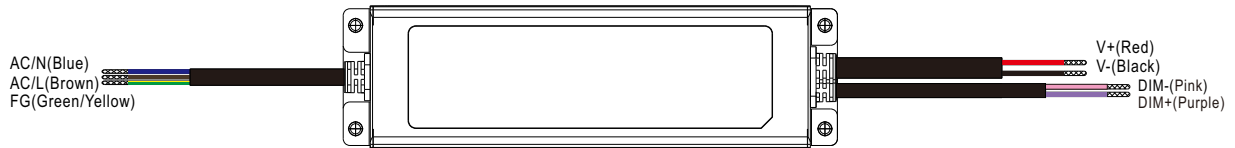
Recommend Performance Region

◎ XLG-240-H



Recommend Performance Region

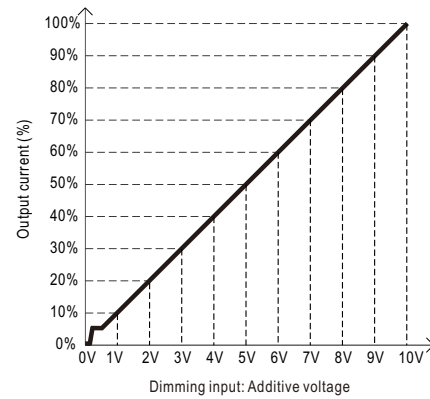
DIMMING OPERATION



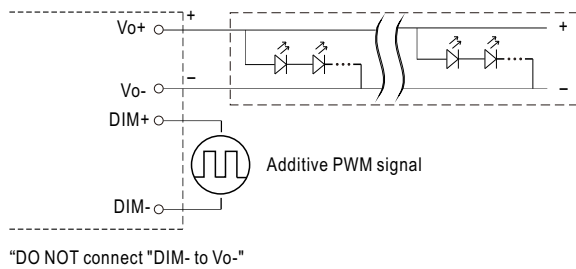
※ 3 in 1 dimming function (for AB-Type)

- 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 μ A (typ.)

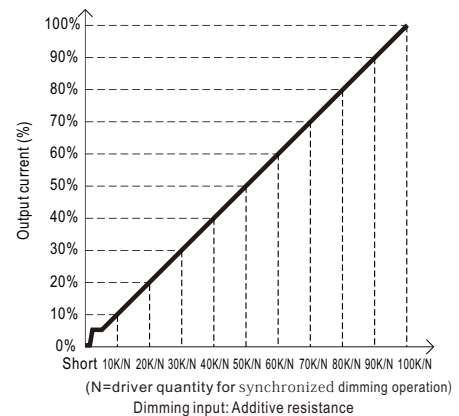
◎ Applying additive 0 ~ 10VDC



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

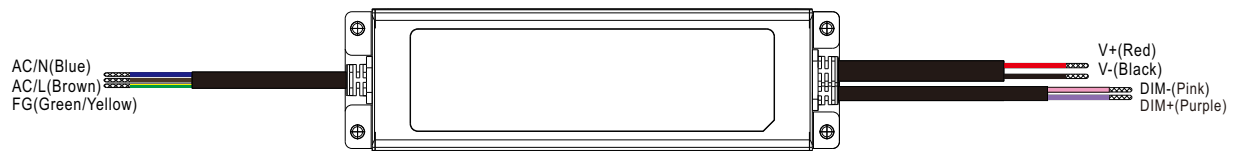


◎ Applying additive resistance:



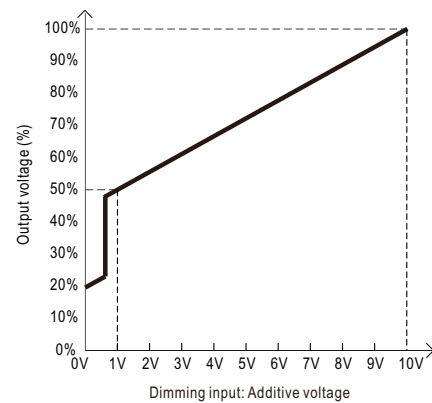
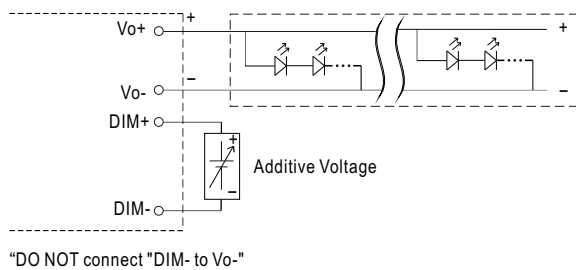
- Note :
1. Min. dimming level is about 8% and the output current is not defined when $0\% < I_{out} < 8\%$.
 2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.
 3. When PWM frequency > 2K HZ, the lighting will be triggered at 10~15%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

DIMMING OPERATION

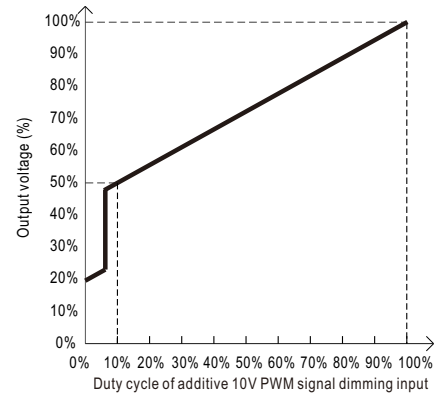
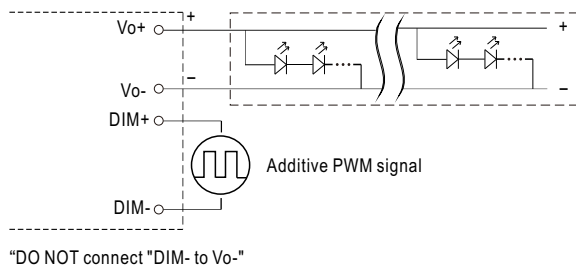


※ 3 in 1 dimming function (for ABV-Type)

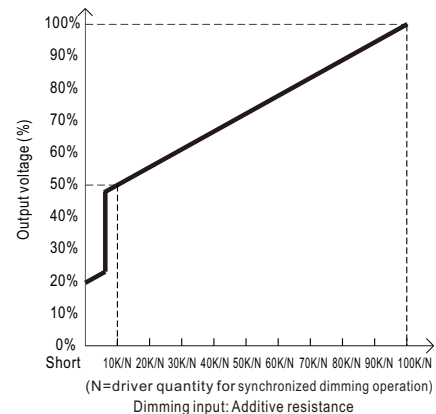
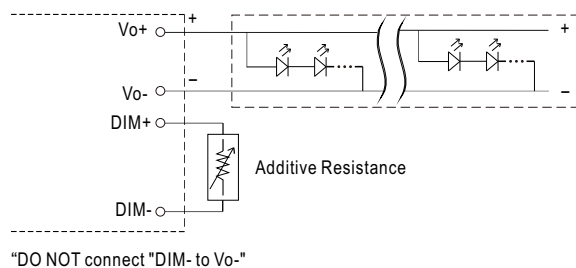
- Output constant voltage can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100 μ A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



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

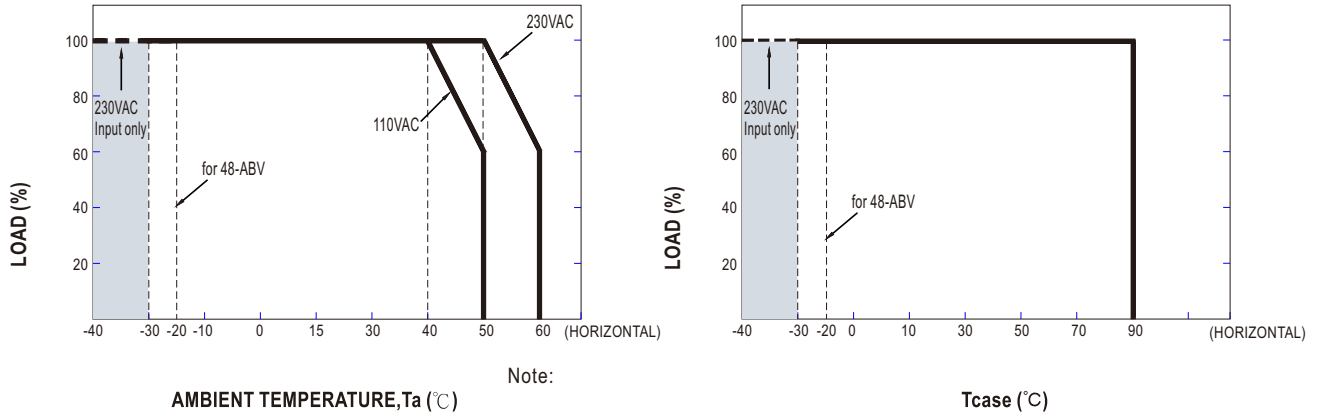


- ◎ Applying additive resistance:



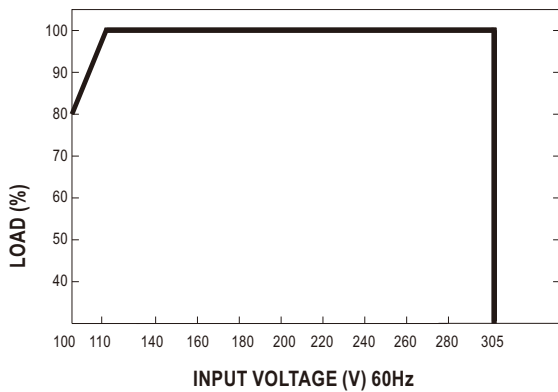
Note : 1. Min. dimming level is about 50% of output voltage and the output voltage is not defined when $V_{out} < 50\%$
 2. The output voltage could drop down to 0V when dimming input is about 0k or 0Vdc, or 10V PWM signal with 0% duty cycle.

OUTPUT LOAD vs TEMPERATURE



Note: 1. If XLG-240 operates in Constant Power mode with the rated current the maximum workable Ta is 50°C (Typ. 230VAC) or 40°C (Typ. 110VAC)
2. It may has a soft-start status when operation at -30°C full load and 110VAC input condition.

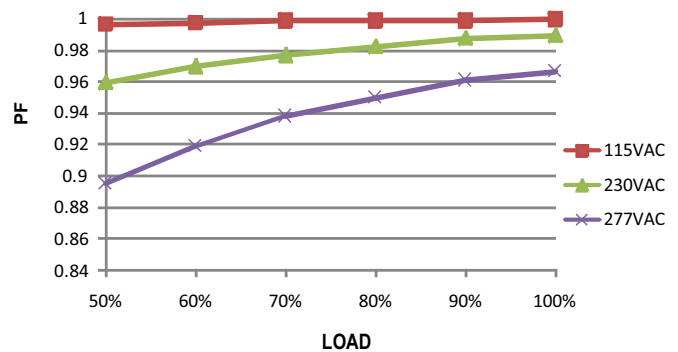
STATIC CHARACTERISTIC



POWER FACTOR (PF) CHARACTERISTIC

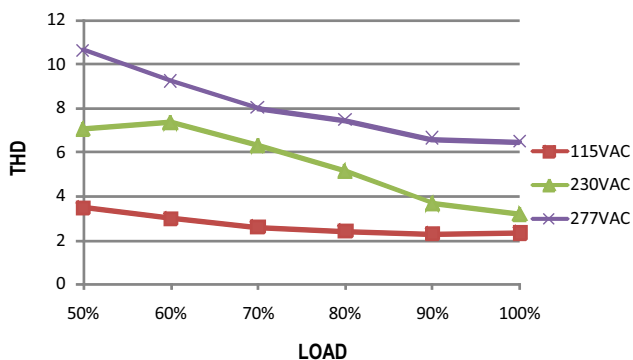
※ Tcase at 75°C

Constant Current Mode



TOTAL HARMONIC DISTORTION (THD)

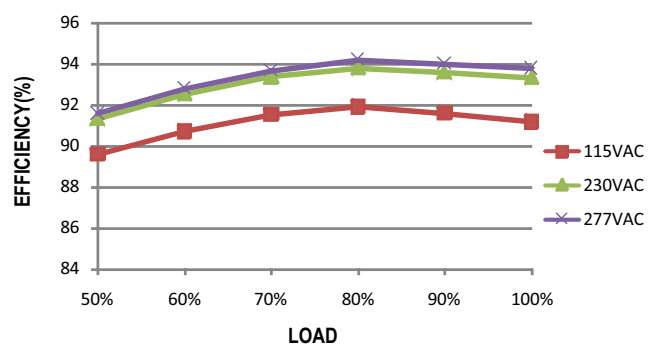
※ XLG-240-L Model, Tcase at 75°C



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



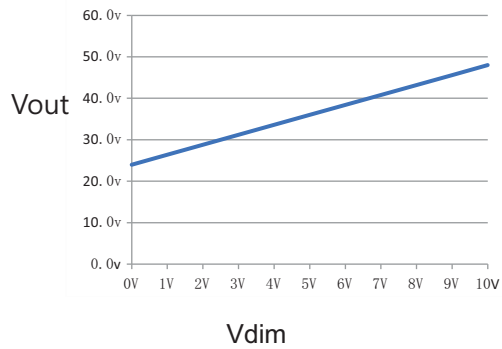
■ CONSTANT VOLTAGE DIMMING OPERATION:

48-ABV type

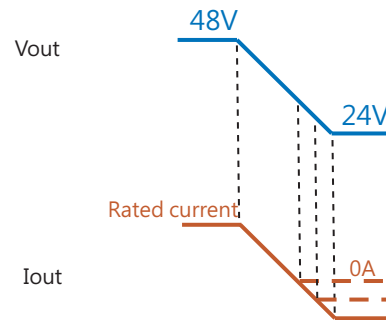
Note: flicker free design for agricultural lighting

flicker free design for Indoor LED strip lighting

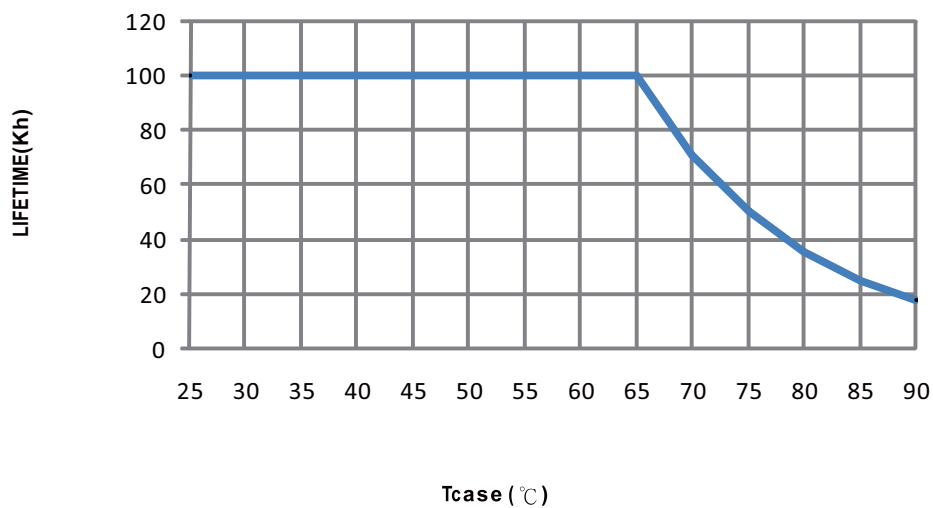
Dimming Curve



DC Voltage Level



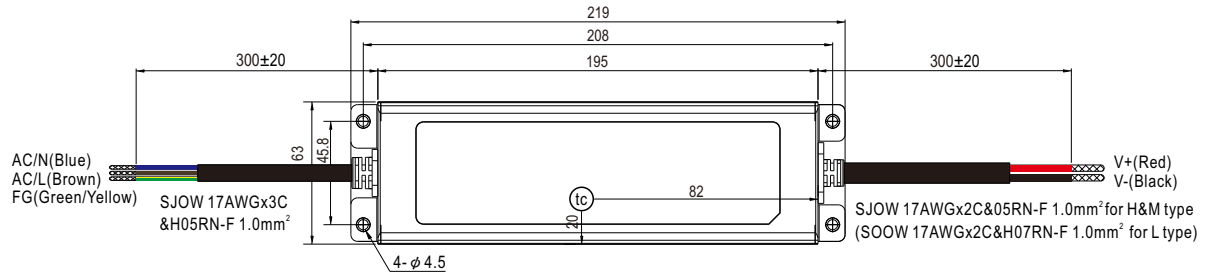
■ LIFE TIME



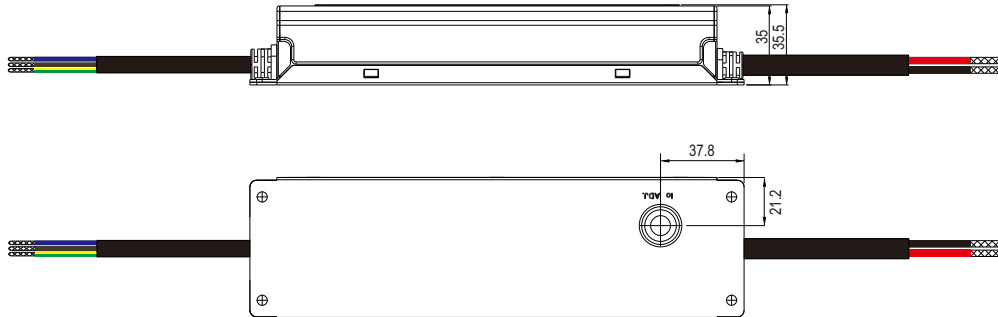
MECHANICAL SPECIFICATION

Case No.:237 Unit:mm Tolerance:±1

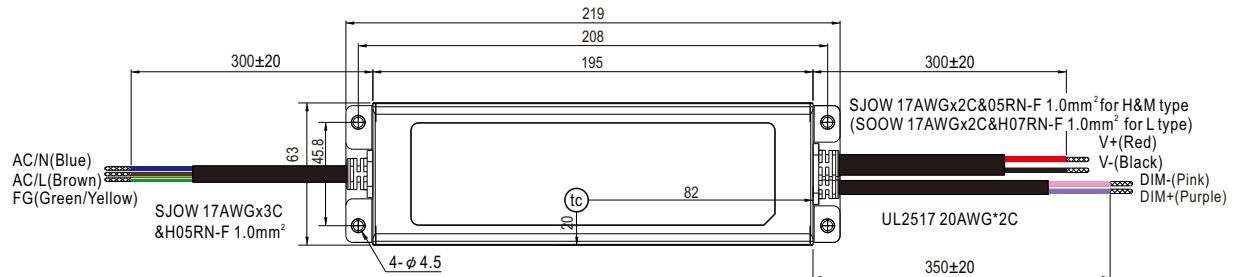
※ A-Type



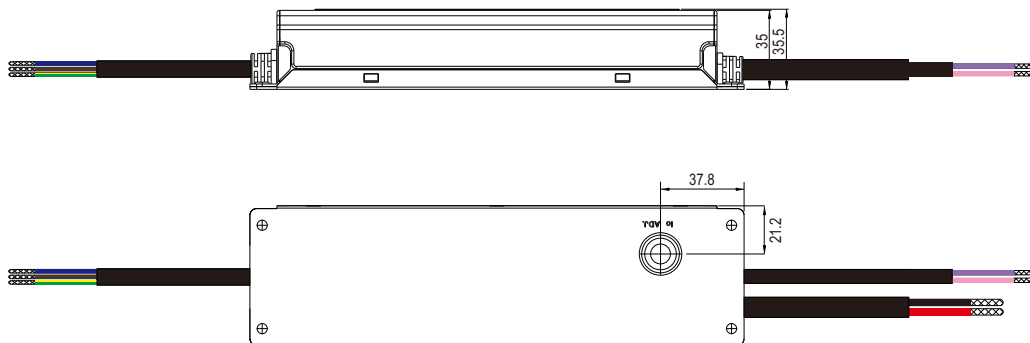
• (tc) : Max. Case Temperature



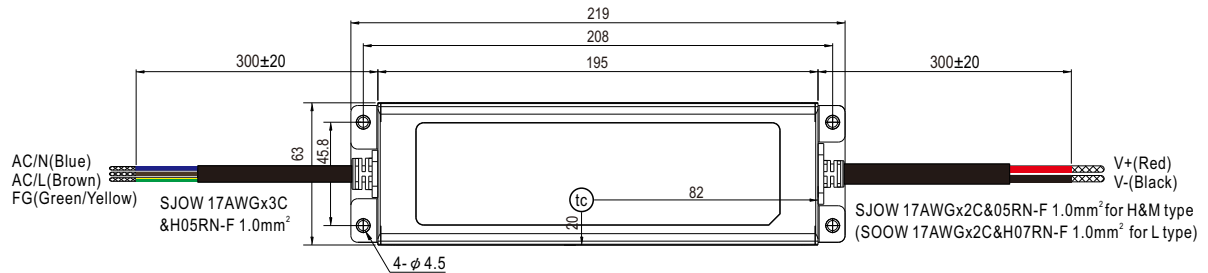
※ AB/ABV-Type



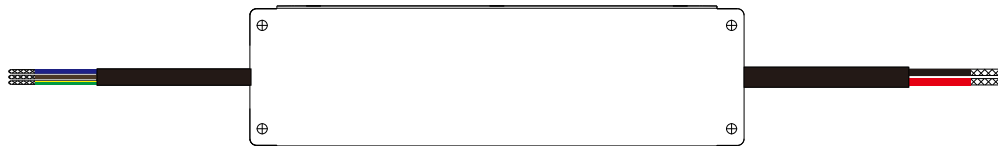
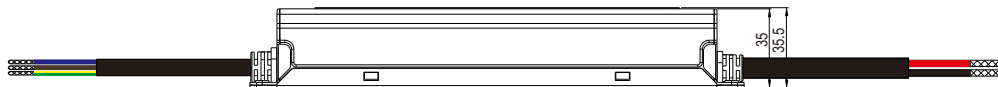
• (tc) : Max. Case Temperature



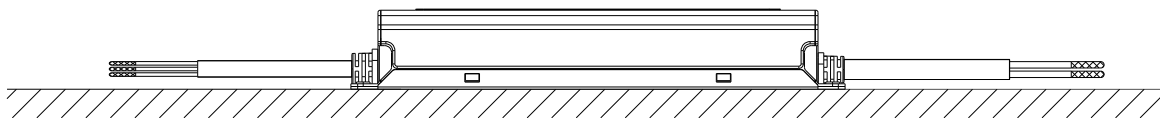
※ Blank-Type



• tc : Max. Case Temperature



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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