



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 with Input Over Voltage Protection 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
- DMX power supply
- Type HL for use in class I, Division 2

GTIN CODE

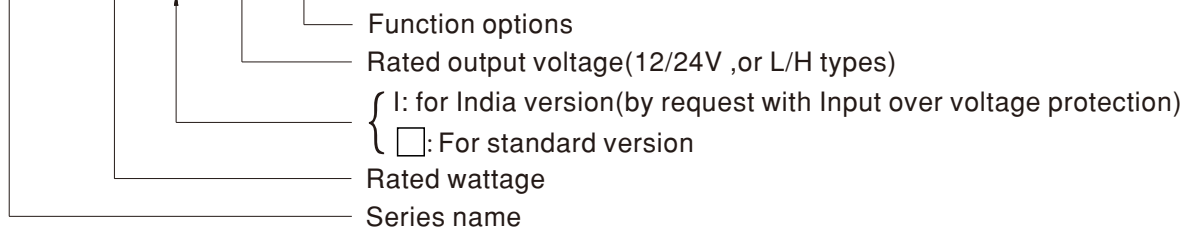
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

Description

XLG-200 series is a 200W LED AC/DC driver featuring the constant power mode. XLG-200 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 16A. Thanks to the high efficiency up to 94%, 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-200 series comply with the latest version of IEC61347/GB/T19510.1 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the safety of both user and luminaire system during installation.

Model Encoding

XLG - 200 I - L - □



| 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 |
| CV | CV-type only with constant voltage function and only for 12V and 24V models,Io and Vo are fixed. | By request |

Note: 1. 12V and 24V models without AB type
 2. India version needs MOQ for production, please consult MEANWELL for detail

SPECIFICATION

| MODEL | XLG-200□-12-□ | XLG-200□-24-□ | | |
|--|--|---|--|---|
| OUTPUT | DC VOLTAGE | 12V | 24V | |
| | CONSTANT CURRENT REGION <small>Note.2</small> | 8.4~ 12V | 16.8~ 24V | |
| | RATED CURRENT (Default) | 16A | 8.3A | |
| | RATED POWER | 192W | 199.2W | |
| | RIPPLE & NOISE (max.) <small>Note.3</small> | 150mVp-p | 240mVp-p | |
| | CURRENT ADJ. RANGE | Adjustable for A-Type only (via the built-in potentiometer) | | |
| | | 8 ~ 16A | 4.15 ~ 8.3A | |
| | VOLTAGE TOLERANCE <small>Note.4</small> | ±3.0% | ±2.0% | |
| | LINE REGULATION | ±0.5% | ±0.5% | |
| | LOAD REGULATION | ±2% | ±1% | |
| SETUP, RISE TIME <small>Note.6</small> | 500ms, 100ms/230VAC, 1200ms, 100ms/115VAC | | | |
| HOLD UP TIME (Typ.) | 10ms/ 230VAC 10ms/ 115VAC | | | |
| INPUT | VOLTAGE RANGE <small>Note.5</small> | 100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section) | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | |
| | POWER FACTOR | PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92/277VAC@full load | | |
| | TOTAL HARMONIC DISTORTION | THD < 10% (@load ≥ 50%/115VAC, 230VAC; @load ≥ 75%/277VAC) | | |
| | EFFICIENCY (Typ.) | 92% | 94% | |
| | AC CURRENT | 2.2A / 115VAC 1.1A / 230VAC 0.9A/277VAC | | |
| | INRUSH CURRENT(Typ.) | COLD START 65A(twidth=550µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC | | |
| | LEAKAGE CURRENT | <0.75mA / 277VAC | | |
| | NO LOAD POWER CONSUMPTION | No load power consumption <0.5W(for standard version) | | |
| PROTECTION | OVER CURRENT | 110~160% for CV type,95~108% for other type CV-type: Hiccup mode only; Other type: Hiccup or constant current limiting; Recovers automatically after fault condition is removed | | |
| | SHORT CIRCUIT | CV-type: Hiccup mode only; Other type: Hiccup or constant current limiting; Recovers automatically after fault condition is removed | | |
| | OVER VOLTAGE | 13.5 ~ 18V | 27 ~ 34V | |
| | | Shut down output voltage, re-power on to recover | | |
| | INPUT OVER VOLTAGE | 320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage,recovers automatically after fault condition is removed) Can survive input voltage stress of 440Vac for 48 hours(Input over voltage only for XLG-200I series) | | |
| ENVIRONMENT | WORKING TEMP. | Tcase=-40 ~ +90°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section) | | |
| | MAX. CASE TEMP. | Tcase=+90°C | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 60°C) | | |
| | VIBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | |
| EMC SAFETY & | SAFETY STANDARDS <small>Note.7</small> | UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384;GB/T19510.1, GB/T19510.2;13;EAC TP TC 004;J61347-1(H29), J61347-2-13(H29),KC61347-1,KC61347-1,IS15885(Part2/Sec13)(for XLG-200I type only); 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°C / 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 | 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 3 |
| 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 3 | |
| 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 | 2300.1K hrs min. Telcordia SR-332 (Bellcore) ; 200.7Khrs min. MIL-HDBK-217F (25°C) | | |
| | DIMENSION | 199*63*35.5mm (L*W*H) | | |
| | PACKING | 0.85Kg;16pcs /14.2Kg /0.75CUFT | | |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</p> <p>2. Please refer to "DRIVING METHODS OF LED MODULE"(Except for CV-type).</p> <p>3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor.</p> <p>4. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</p> <p>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.</p> <p>7. Only CE/ENEC/CB is available for CV-type. XLG-200I series without UL/CSA certificate.</p> <p>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/EML_statement_en.pdf)</p> <p>9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (Tc) point (or TMP, per DLC), is about 75°C or less.</p> <p>10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</p> <p>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).</p> <p>12. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.</p> <p>13. 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>14. 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>15. If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details.</p> <p>16. For A/AB type need to consider build in using to comply with Type HL application.</p> | | | |

SPECIFICATION

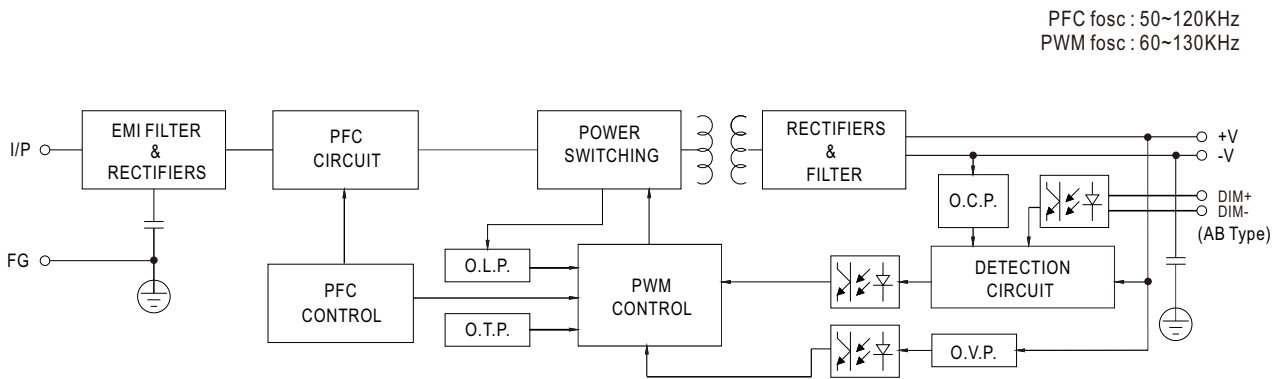
| MODEL | | XLG-200□-L-□ | XLG-200□-H-□ | |
|-----------------------------------|--|--|---|-------------------|
| OUTPUT | RATED CURRENT (Default) | 700mA | 3500mA | |
| | RATED POWER | 200W | 200W | |
| | CONSTANT CURRENT REGION <small>Note.2</small> | 142~285V | 27~56V | |
| | FULL POWER CURRENT RANGE | 700~1050mA | 3500~5550mA | |
| | OPEN CIRCUIT VOLTAGE (max.) | 300V | 60V | |
| | CURRENT ADJ. RANGE | Adjustable for A/AB-Type only (via the built-in potentiometer) | | |
| | | 350~1050mA | 1750~5550mA | |
| | CURRENT RIPPLE | 3.0%(@ Load ≥ 50% rated voltage) | | |
| | CURRENT TOLERANCE | ±5% | | |
| SET UP TIME <small>Note.4</small> | 500ms/230VAC, 1200ms/115VAC | | | |
| INPUT | VOLTAGE RANGE <small>Note.3</small> | 100 ~ 305VAC 142VDC ~ 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.) | 94% | 93% | |
| | AC CURRENT (Typ.) | 2.2A / 115VAC 1.1A / 230VAC 0.9A / 277VAC | | |
| | INRUSH CURRENT(Typ.) | COLD START 65A(twidth=550µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 | | |
| | MAX. NO. of PSUs on 16A CIRCUIT BREAKER | 3 unit(circuit breaker of type B) / 6 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 | 301 ~ 360V | 61 ~ 85V | |
| | INPUT OVER VOLTAGE | 320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage,recovers automatically after fault condition is removed) Can survive input voltage stress of 440Vac for 48 hours(Input over voltage only for XLG-200I series) | | |
| | OVER TEMPERATURE | Shut down output voltage, re-power on to recover | | |
| ENVIRONMENT | WORKING TEMP. | Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) | | |
| | MAX. CASE TEMP. | Tcase=+90°C | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH non-condensing | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 60°C) | | |
| VIBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | |
| SAFETY & EMC | SAFETY STANDARDS <small>Note.5</small> | UL8750(type"HL"), CSA C22.2 No. 250.13-12; BS EN/ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; GB/T19510.1, GB/T19510.213;EAC TP TC 004; J61347-1(H29), J61347-2-13(H29),KC61347-1,KC61347-2-13,IS15885(Part2/Sec13) (for XLG-200I type only); 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°C/ 70% RH | | |
| | EMC EMISSION | Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load ≥ 50%); BS EN/EN61000-3-3 | | |
| | 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 | ---- |
| | | 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 3 | |
| 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 3 | |
| 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 | 2300.1K hrs min. Telcordia SR-332 (Bellcore) ; 200.7Khrs min. MIL-HDBK-217F (25°C) | | |
| | DIMENSION | 199*63*35.5mm (L*W*H) | | |
| | PACKING | 0.85Kg;16pcs/14.2Kg/0.75CUFT | | |

NOTE

- All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.
- Please refer to "DRIVING METHODS OF LED MODULE".
- De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 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.
- XLG-200I series without UL/CSA certificate.
- 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)
- This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (Tc) point (or TMP, per DLC), is about 75°C or less.
- Please refer to the warranty statement on MEAN WELL's website at <http://www.meanwell.com>
- 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).
- 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.
- Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.
- 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
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf parallel capacitor.
- 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.
- If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details.
- For A/AB 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>

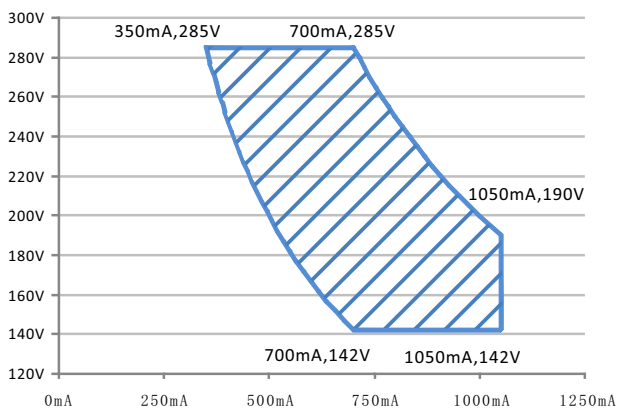
■ BLOCK DIAGRAM



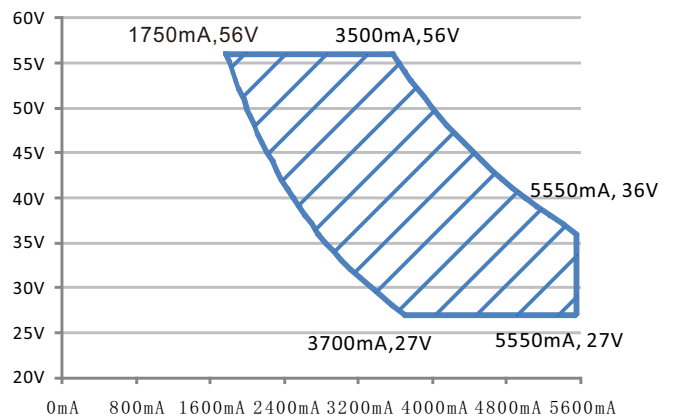
■ DRIVING METHODS OF LED MODULE

※ I-V Operating Area

◎ XLG-200-L



◎ XLG-200-H

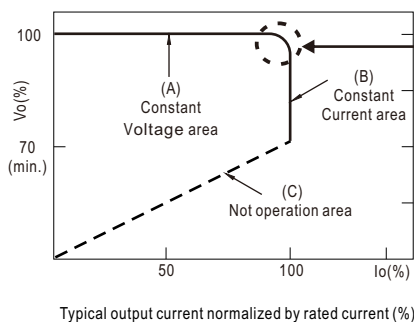


Recommend Performance Region

Recommend Performance Region

◎ XLG-200-12,24

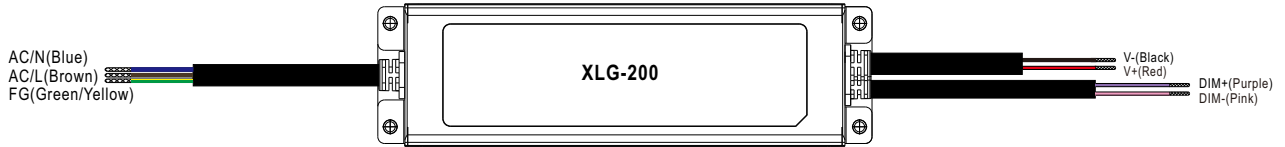
※ This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs, except for CV-type.



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.

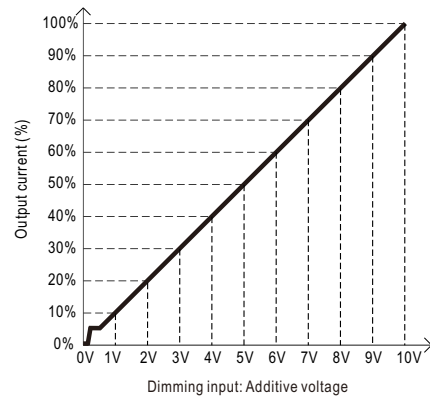
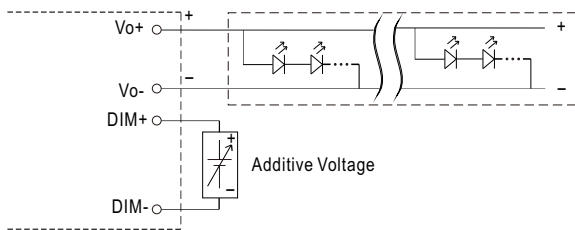
■ DIMMING OPERATION



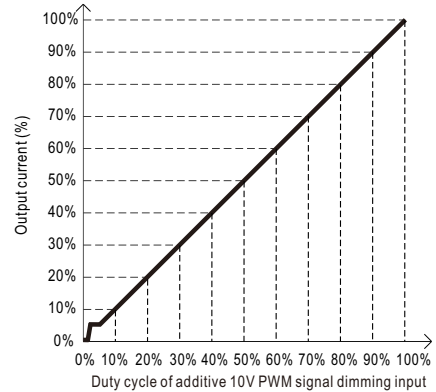
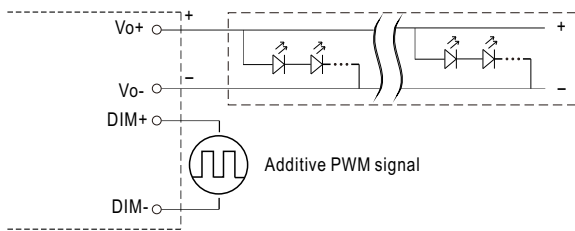
※ **3 in 1 dimming function (for AB-Type)**

- 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.)

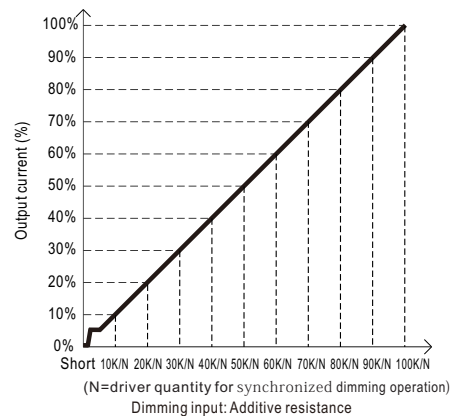
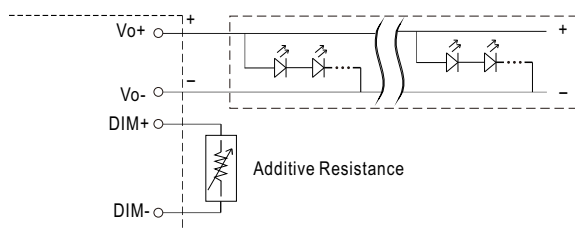
◎ Applying additive 0 ~ 10VDC



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

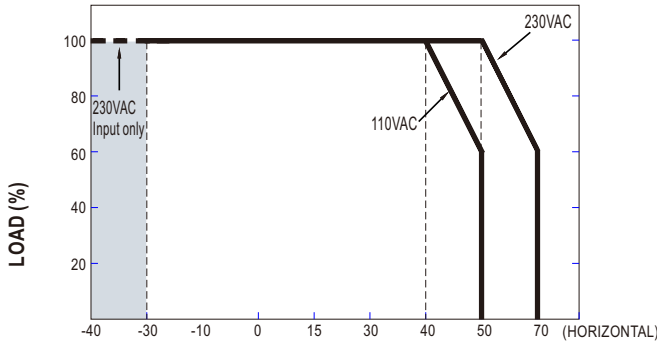


◎ Applying additive resistance:

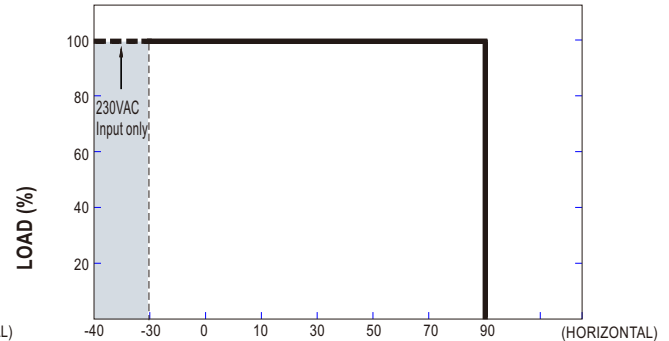


Note : 1. Min. dimming level is about 8% and the output current is not defined when 0% < I_{out} < 8%.
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

OUTPUT LOAD vs TEMPERATURE



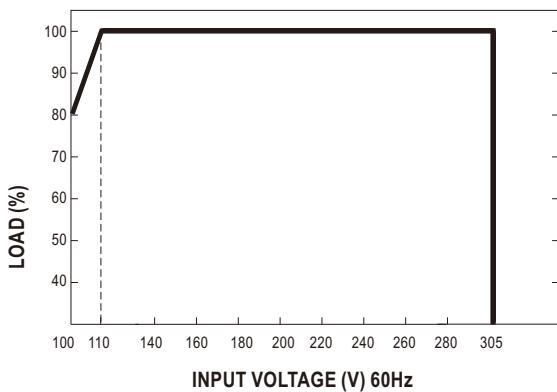
AMBIBS EN/ENT TEMPERATURE, Ta (°C)



Tcase (°C)

If XLG-200 operates in Constant Power mode with the rated current the maximum workable Ta is 50°C (Typ. 230VAC) or 40°C (typ. 110VAC). Below 110VAC@-30°C may has restart situation within 5s after power-on.

STATIC CHARACTERISTIC

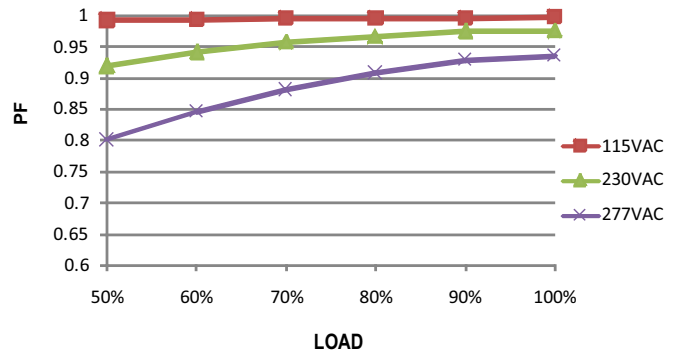


INPUT VOLTAGE (V) 60Hz

POWER FACTOR (PF) CHARACTERISTIC

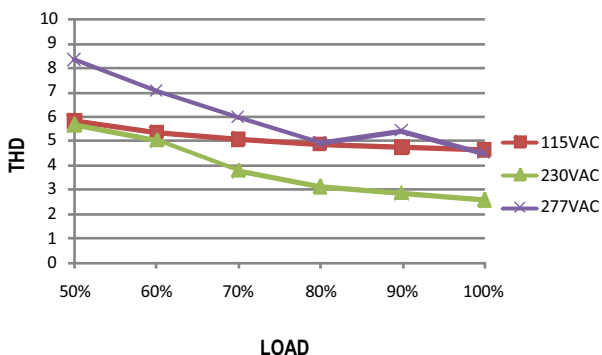
※ Tcase at 75°C

Constant Current Mode



TOTAL HARMONIC DISTORTION (THD)

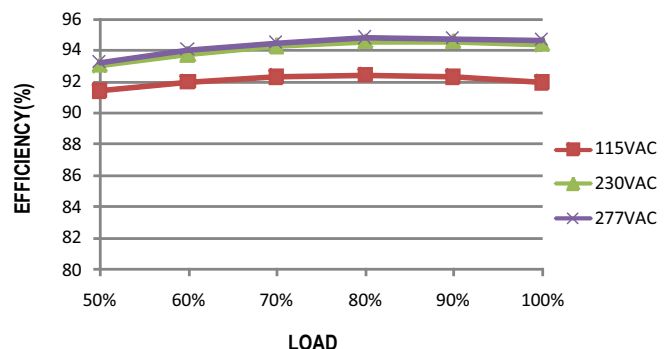
※ XLG-200-L Model, Tcase at 75°C



EFFICIENCY vs LOAD

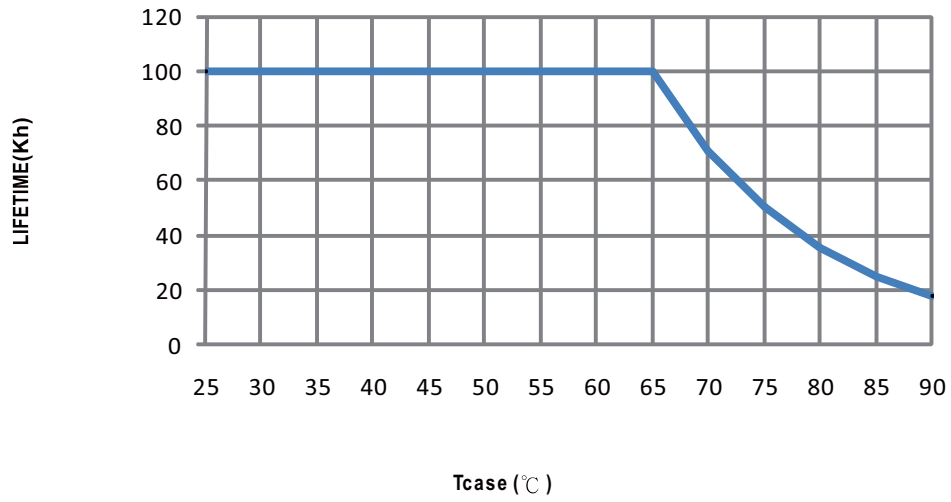
XLG-200 series possess superior working efficiency that up to 94% can be reached in field applications.

※ XLG-200-L Model, Tcase at 75°C





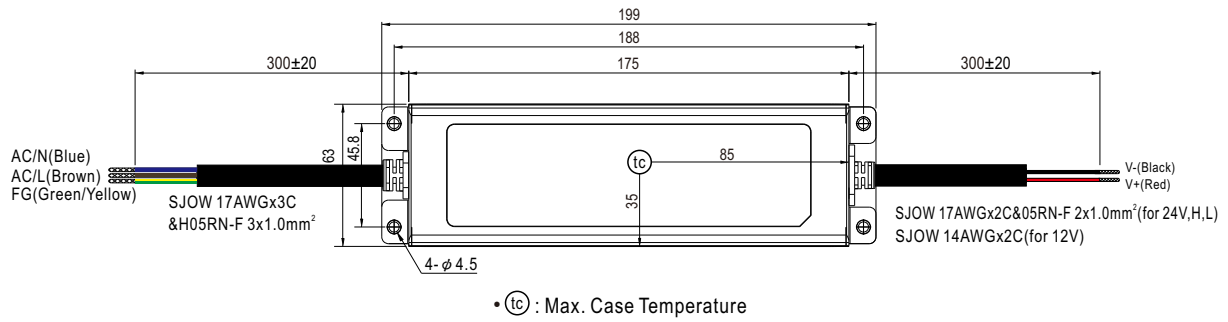
■ LIFE TIME



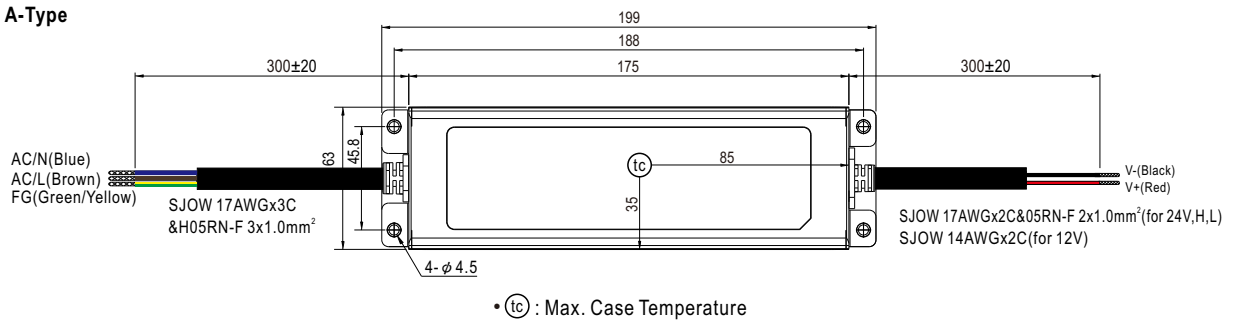
MECHANICAL SPECIFICATION

Case No.:244A Unit:mm Tolerance:±1

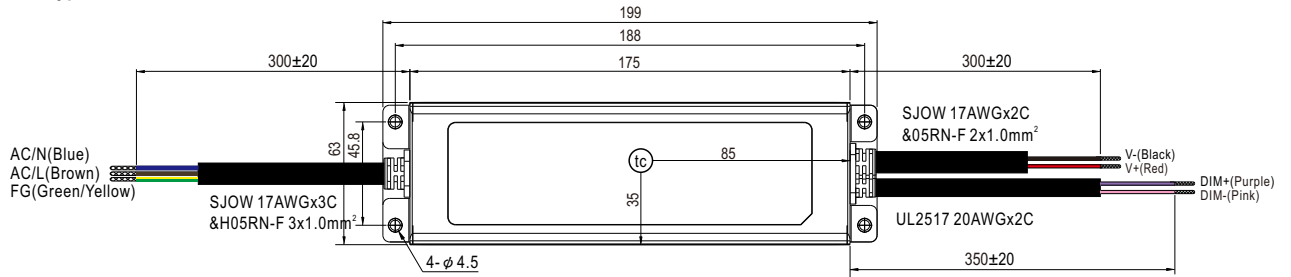
※ Blank/CV-Type



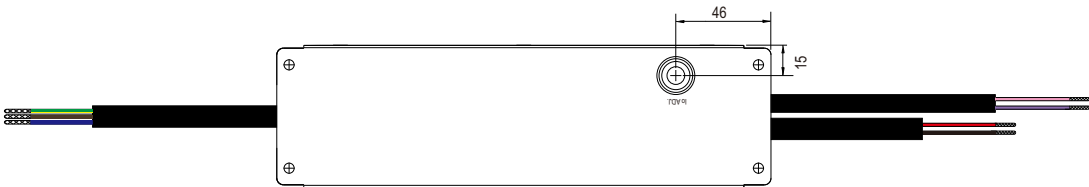
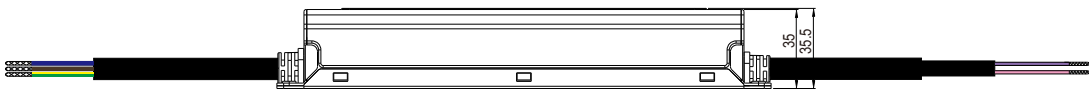
※ A-Type



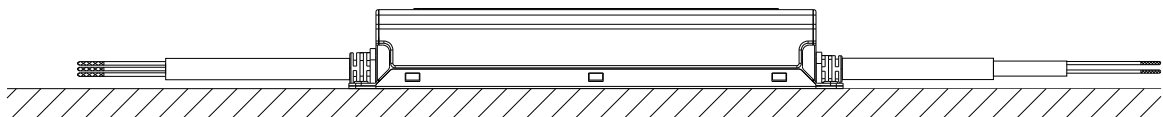
※ AB-Type



• (tc) : Max. Case Temperature



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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

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