

Features

- Wide input range 100~305VAC(Class I)
- Full power output at 70~100% Constant power mode operation
- Metal case with IP67, suitable for outdoor application
- LVLE(H type), Class 2(24V)power unit
- 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

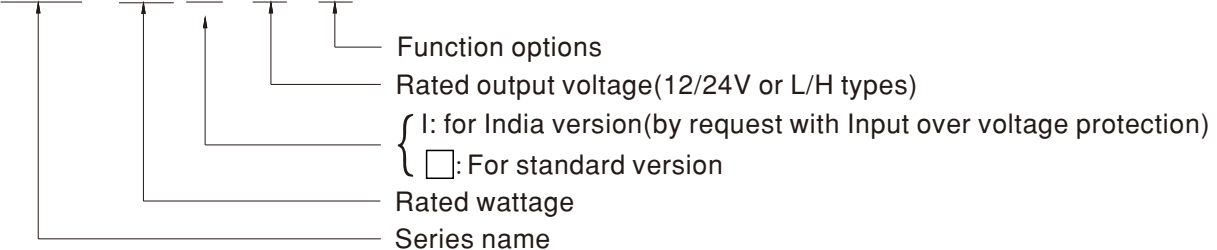
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Description

XLG-100 series is a 100W LED AC/DC driver featuring the constant power mode. XLG-100 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 8000mA. Thanks to the high efficiency up to 92%, 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-100 series comply with the latest version of IEC61347/GB7000.1-2015 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 - 100 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 |

Note: 1.12V and 24V models without the AB type
 2.India version needs MOQ for production, please consult MEANWELL for detail

SPECIFICATION

| MODEL | | XLG-100 □-L-□ | XLG-100 □-H-□ | |
|--------------------------------|--|---|--|---|
| OUTPUT | RATED CURRENT (Default) | 700mA | 2100mA | |
| | RATED POWER | 100W | 100W | |
| | CONSTANT CURRENT REGION | 71 ~ 142V | 27 ~ 56V | |
| | FULL POWER CURRENT RANGE | 700~1050mA | 1750~2780mA | |
| | OPEN CIRCUIT VOLTAGE (max.) | 149V | 60V | |
| | CURRENT ADJ. RANGE | 350~1050mA | 875~2780mA | |
| | CURRENT RIPPLE | 3.0%(@rated current) | | |
| | CURRENT TOLERANCE | ±5% | | |
| | SET UP TIME | 500ms/230VAC, 1200ms/115VAC | | |
| INPUT | VOLTAGE RANGE <small>Note.5</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.) | 92.5% | 91% | |
| | AC CURRENT (Typ.) | 1.1A / 115VAC | 0.5A / 230VAC | 0.42A / 277VAC |
| | INRUSH CURRENT(Typ.) | COLD START 50A(twidth=300μs measured at 50% I _{peak}) at 230VAC; Per NEMA 410 | | |
| | MAX. NO. of PSUs on 16A CIRCUIT BREAKER | 8 unit(circuit breaker of type B) / 14 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 | OVER POWER | 105 ~ 150% Hiccup mode, recovers automatically after fault condition is removed | | |
| | SHORT CIRCUIT | Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed | | |
| | OVER VOLTAGE | 160 ~ 220V | 66 ~ 90V | |
| | INPUT OVER VOLTAGE <small>Note.7</small> | 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 @ tc 75°C max | | |
| | OVER TEMPERATURE | Shut down output voltage, re-power on to recover | | |
| ENVIRONMENT | WORKING TEMP. | T _{case} =-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) | | |
| | MAX. CASE TEMP. | T _{case} =+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.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; GB19510.1, GB19510.14; EAC TP TC 004;J61347-1(H29), J61347-2-13(H29),KC61347-1.KC61347-2-13, IS15885(Part2/Sec13)(for XLG-100I 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/T17743 | ----- |
| | | Radiated | BS EN/EN55015(CISPR15) ,GB/T17743 | ----- |
| | | Harmonic Current | BS EN/EN61000-3-2, GB/T17625.1 | Class C @load≥50% |
| | Voltage Flicker | BS EN/EN61000-3-3 | ----- | |
| | 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 | 2782.6K hrs min. Telcordia SR-332 (Bellcore) ; 276.4Khrs min. MIL-HDBK-217F (25°C) | | |
| | DIMENSION | 140*63*32mm (L*W*H) | | |
| | PACKING | 0.58Kg;24pcs /15Kg /0.85CUFT | | |
| 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".</p> <p>3. 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>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. Input voltage only for XLG-100 I series, and I 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-quality EMC Directive on the complete installation again.</p> <p>9. 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>10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</p> <p>11. This series meets the typical life expectancy of >50,000 hours of operation when T_{case}, particularly (T_c) point (or T_{MP}, per DLC), is about 80°C or less.</p> <p>12. Products sourced from the Americas regions may not have the PSE/CCC/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>⊗ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p> | | | |