

- Protection functions: SCP/OTP
- · Life time >50,000 hrs. and 5 years warranty

Description

XLG-150-DA2 series is a 150W LED AC/DC driver featuring the constant power mode with DALI-2 dimming function. XLG-150-DA2 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 4170mA. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for $-40^{\circ}C \sim +90^{\circ}C$ 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-150-DA2 series comply 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 safety of both user and luminaire system during installation.

GTIN CODE

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

Model Encoding

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|-----------------------|---|
| XLG - 150 🔲 - 📙 - DA2 | |
| | DA2: DALI-2 dimming function DA2-A: DALI-2 dimming function with12V/250mA Auxiliary available(optional) Determine function with12V/250mA Auxiliary available(optional) |
| | — Rated output voltage(L/M/H types) |
| | Tipot India version (by request with Input over voltage protection) |
| | Rated wattage |
| | — Series name |

| Туре | Function | Note | | | |
|-------|---|------------|--|--|--|
| DA2 | DALI-2 control technology with lo adjustable via built-in potentiometer | In Stock | | | |
| DA2-A | DALI-2 control technology with lo adjustable via built-in potentiometer and auxiliary power 12V/250mA | by request | | | |



SPECIFICATION

| MODEL | | XLG-150 -L- | XLG-150M | XLG-150H | | | |
|-------------|---|---|--|--|--|--|--|
| | RATED CURRENT | 700mA | 1400mA | 2800mA | | | |
| | RATED POWER | 150W | 150W | 150W | | | |
| | CONSTANT CURRENT REGION Note.2 | 120~214V | 60 ~ 107V | 27~56V | | | |
| | FULL POWER CURRENT RANGE | 700~1050mA | 1400~2100mA | 2680~4170mA | | | |
| OUTPUT | OPEN CIRCUIT VOLTAGE (max.) | 240V | 120V | 65V | | | |
| 001101 | CURRENT ADJ. RANGE | (Via the built-in potentiometer) | | | | | |
| | CURRENT ADJ. RANGE | 350~1050mA | 700~2100mA | 1400~4170mA | | | |
| | CURRENT RIPPLE | 4.0%(@ full load) | | | | | |
| | CURRENT TOLERANCE | ±5% | | | | | |
| | AUXILIARY DC OUTPUT | 12V@250mA tolerance ±10%, ripple 200mVp-p (only for DA2-A-type) | | | | | |
| | SET UP TIME | 500ms/230VAC, 1200ms/115VAC | | | | | |
| | VOLTAGE RANGE Note.4 | 100 ~ 305VAC 142VDC ~ 431VDC | | | | | |
| | FREQUENCY RANGE | (Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section) | | | | | |
| | FREQUENCI RANGE | 47 ~ 63Hz PF≥0.97 / 115VAC, PF≥0.95 / 230VAC, PF≥0.92 / 277VAC at full load | | | | | |
| | POWER FACTOR (Typ.) | (Please refer to "Power Factor Characteristic" section) | | | | | |
| | | | C/230VAC .@load≥75% at 277VAC) | | | | |
| | TOTAL HARMONIC DISTORTION | THD<10% (@ load≧50% at 115VAC/230VAC ,@load≧75% at 277VAC) Please refer to "TOTAL HARMONIC DISTORTION (THD)" section | | | | | |
| | EFFICIENCY (Typ.) Note.14 | | | | | | |
| INPUT | AC CURRENT (Typ.) | | .8A/277VAC | | | | |
| | INRUSH CURRENT(Typ.) | COLD START 60A(twidth=500µs measured at 50% lpeak) at 230VAC; Per NEMA 410 | | | | | |
| | MAX. NO. of PSUs on 16A | , I | | | | | |
| | CIRCUIT BREAKER | 4 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 (| Standby power consumption <0.5W (Dimming OFF, Only for standard version DA2-type) | | | | |
| | SHORT CIRCUIT | Hiccup mode or Constant current limi | Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed | | | | |
| | | | ge when the input voltage exceeds protection voltage, re | | | | |
| PROTECTION | INPUT OVER VOLTAGE Note.7 | Can survive input voltage stress of 44 | 40Vac for 48 hours | · · · | | | |
| | OVER TEMPERATURE | Stage 1: Derating to 75% loading; sta | age 2: Derating to 50% loading. recovers automatical | ly after fault condition is removed | | | |
| | WORKING TEMP. | | OUTPUT LOAD vs TEMPERATURE" section) | • | | | |
| | MAX. CASE TEMP. | Tcase=+90°C | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH non-conde | ensing | | | | |
| | TEMP. COEFFICIENT | ±0.06%/°C (0~60°C) | | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 12min./1cycle, period | d for 72min. each along X, Y, Z axes | | | | |
| | SAFETY STANDARDS | UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix J suitable for emergency installations(DC Input: 176-280Vdc) independent, BS EN/EN62384; GB19510.1, GB19510.14; EAC TP TC 004; IS 15885(Part2/Sec13)(for XLG-150I-DA2 only); IP67 approved | | | | | |
| | DALI STANDARDS | Comply with IEC62386-101,102,20 | | | | | |
| | 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 Ohm | ns / 500VDC / 25°C / 70% RH | | | | |
| | | Parameter | Standard | Test Level/Note | | | |
| | | Conducted | BS EN/EN55015(CISPR15) ,GB/T 17743 | | | | |
| | | Radiated | BS EN/EN55015(CISPR15), GB/T 17743 | | | | |
| | EMC EMISSION | Harmonic Current | BS EN/EN61000-3-2 ,GB17625.1 | Class C @load≥50% | | | |
| | | Voltage Flicker | BS EN/EN61000-3-3 | | | | |
| SAFETY & | | BS EN/EN61547 | Delivertoree | | | | |
| EMC | | 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 | | | |
| | EMC IMMUNITY | 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 | | | |
| | | • | | >95% dip 0.5 periods, 30% dip 25 periods, | | | |
| | | Voltage Dips and Interruptions | BS EN/EN61000-4-11 | >95% interruptions 250 periods | | | |
| OTUEDO | MTBF | 2316.2Khrs min. Telcordia SR-332 (Bellcore); 213.3Khrs min. MIL-HDBK-217F (25°C) | | | | | |
| OTHERS | DIMENSION | 180*63*35.5mm (L*W*H) | | | | | |
| | PACKING | 0.8Kg;16pcs/13.4Kg/0.67CUFT | | | | | |
| 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". Tolerance : includes set up tolerance, line regulation and load regulation. 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.Especially when the temperature inside driver is very high, it will lead to a longer set up time. | | | | | | |
| | 6. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the set up time will be longer than 500ms. 7. Input over voltage only for XLG-150 I series, and I series 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. The ambient temperature derat 10. Please refer to the warranty s 11. This series meets the typical 12. Products sourced from the An 13. For any application note and https://www.meanwell.com/Up 14. The efficiency will drop 1% ba | ing of 3.5°C/1000m with fanless models tatement on MEAN WELL's website at f fe expectancy of >50,000 hours of oper nericas regions may not have the CCC// P water proof function installation cautic load/PDF/LED_EN.pdf sed on auxiliary power version with full | : and of 5℃/1000m with fan models for operating altitu http://www.meanwell.com ation when Tcase, particularly (ⓒ point (or TMP, per D PSE/BIS/KC logo. Please contact your MEAN WELL si on, please refer our user manual before using. load 3W condition. | LC), is about 75 [°] C or less. ales for more information. | | | |
| | | tary basis. Non IC classification Indeper | ndent LED control gear is not suitable for residential in ZS standards complying with AS/NZS 4417.1 | stallations; | | | |



















