



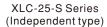




IS 15885 8

NOTE.14

























## Features

- · Constant power mode output with multiple stage selectable by dip switch or NFC setting(H-type)
- Constant voltage mode output (12V/24V)
- · Plastic housing with class II and PFC design
- · Meet UL 8750 Class 2 / Class P power unit
- · Flicker free, complying with CE ErP directive
- Standby power consumption < 0.5W</li>
- · Meet emergency lighting (EL) application
- Minimum dimming level 0.1% (DALI-2 DT6)
- Dimming functions: 3 in 1 dimming (Dim-to-off) DALI-2 + Push dimming
- 5 years warranty

## Applications

- · Recessed Light
- · Down Light
- · Panel Light
- · Commercial Lighting
- · Decorative Lighting
- · LED strip lighting
- DALI digital Lighting

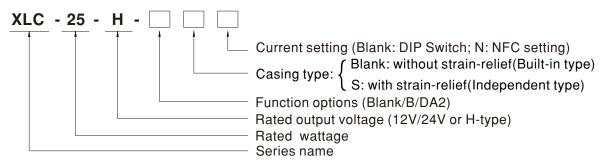
## **GTIN CODE**

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

# Description

XLC-25 Series is a 25W with constant power and constant voltage output LED driver. It can operate from 100~305VAC and output current ranging between 300 mA to 1050 mA selectable by dip switch or NFC setting. Thanks to high efficiency up to 88%, it is able to operate for -25°C ~85°C case temperature under free air convection. XLC-25 is designed based on latest safety regulations with 3 in 1 and DALI-2 dimming. XLC-25 can also be adjusted for brightness with a push button as a simple way dimming, so it provides more flexibility for LED Lighting application.

# Model Encoding



| Туре   | Function                                                                  | Note     |
|--------|---------------------------------------------------------------------------|----------|
| Blank  | H type output current selectable by DIP-switch or NFC setting             |          |
| DIAIIK | 12, 24V Constant voltage output                                           |          |
| В      | H type output current selectable by DIP-switch or NFC with 3 in 1 dimming | In stock |
| DA2    | H type output current selectable by DIP-switch or NFC with DALI-2 dimming |          |

Note: 1. 12V/24V without dimming function.

2. NFC current setting is available for XLC-25-H type only.

#### **SPECIFICATION**

| MODEL     |                                            | XLC-25-12-                                                                                                                                                                                                                                                                                                                       | XLC-25-24-                              |                                                                         |  |  |
|-----------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------|--|--|
|           | RATED VOLTAGE                              | 12V                                                                                                                                                                                                                                                                                                                              |                                         |                                                                         |  |  |
|           | RATED CURRENT                              | 2.1A                                                                                                                                                                                                                                                                                                                             | 1.05A                                   |                                                                         |  |  |
|           | RATED POWER Note.2                         | 25.2W                                                                                                                                                                                                                                                                                                                            | 25.2W                                   |                                                                         |  |  |
| LITBLIT   | RIPPLE & NOISE (max.) Note.3               | 120mVp-p                                                                                                                                                                                                                                                                                                                         | 240mVp-p                                |                                                                         |  |  |
| OUTPUT    | VOLTAGE TOLERANCE Note.4                   |                                                                                                                                                                                                                                                                                                                                  |                                         |                                                                         |  |  |
|           | LINE REGULATION                            | ±0.5%                                                                                                                                                                                                                                                                                                                            |                                         |                                                                         |  |  |
|           | LOAD REGULATION                            | ±2.0%                                                                                                                                                                                                                                                                                                                            |                                         |                                                                         |  |  |
|           | SETUP, RISE TIME Note.5                    | 500ms, 100ms/230VAC, 1000ms, 100ms/115VAC                                                                                                                                                                                                                                                                                        |                                         |                                                                         |  |  |
|           | VOLTAGE RANGE                              | 100 ~ 305VAC 141 ~ 400VDC                                                                                                                                                                                                                                                                                                        |                                         |                                                                         |  |  |
| -         | FREQUENCY RANGE                            | 47 ~ 63Hz                                                                                                                                                                                                                                                                                                                        |                                         |                                                                         |  |  |
|           | POWER FACTOR                               | PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥<br>(Please refer to "POWER FACTOR (PF) CHA                                                                                                                                                                                                                                                   |                                         |                                                                         |  |  |
|           | TOTAL HARMONIC DISTORTION                  | THD<10%(@load≧50%/230VAC; @load≧75%/277VAC), THD<15%(@load≧50%/115VAC)<br>(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)                                                                                                                                                                                             |                                         |                                                                         |  |  |
| PUT       | EFFICIENCY (Typ.)                          | 86%                                                                                                                                                                                                                                                                                                                              | 88%                                     |                                                                         |  |  |
|           | AC CURRENT                                 | 0.35A / 115VAC                                                                                                                                                                                                                                                                                                                   | A/277VAC                                |                                                                         |  |  |
| ĺ         | INRUSH CURRENT(Typ.)                       | COLD START 10A(twidth=100µs measured at 50% Ipeak) at 230VAC; Per NEMA 410                                                                                                                                                                                                                                                       |                                         |                                                                         |  |  |
|           | MAX. No. of PSUs on 16A<br>CIRCUIT BREAKER | 71 units (circuit breaker of type B) / 71 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                            |                                         |                                                                         |  |  |
| ł         | LEAKAGE CURRENT                            | <0.75mA / 277VAC                                                                                                                                                                                                                                                                                                                 |                                         |                                                                         |  |  |
|           |                                            | 105 ~ 220% rated output power                                                                                                                                                                                                                                                                                                    |                                         |                                                                         |  |  |
|           | OVER LOAD                                  | Protection type:Hiccup mode , recovers automatically after fault condition is removed                                                                                                                                                                                                                                            |                                         |                                                                         |  |  |
|           | SHORT CIRCUIT                              | Hiccup mode, recovers automatically after f                                                                                                                                                                                                                                                                                      | · · · · · · · · · · · · · · · · · · ·   |                                                                         |  |  |
| OTECTION  | onorti ontoon                              | 13~16V 26~32V                                                                                                                                                                                                                                                                                                                    |                                         |                                                                         |  |  |
|           | OVER VOLTAGE                               | Shut down and latch off o/p voltage, re-power on to recover                                                                                                                                                                                                                                                                      |                                         |                                                                         |  |  |
|           | OVER TEMPERATURE                           | Shut down output voltage, recovers automatically after fault condition is removed                                                                                                                                                                                                                                                |                                         |                                                                         |  |  |
|           | WORKING TEMP.                              | Tcase=-25 ~ 85°C (Please refer to " OUTPU                                                                                                                                                                                                                                                                                        | <b>.</b>                                |                                                                         |  |  |
|           | MAX. CASE TEMP.                            | Tcase=85°C                                                                                                                                                                                                                                                                                                                       |                                         |                                                                         |  |  |
| /IRONMENT | WORKING HUMIDITY                           | 20 ~ 90% RH non-condensing                                                                                                                                                                                                                                                                                                       |                                         |                                                                         |  |  |
| IKONWENT  | STORAGE TEMP., HUMIDITY                    | · ·                                                                                                                                                                                                                                                                                                                              |                                         |                                                                         |  |  |
|           | TEMP. COEFFICIENT                          | ±0.03%/°C (0~50°C)                                                                                                                                                                                                                                                                                                               |                                         |                                                                         |  |  |
|           | VIBRATION                                  | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                                                                                                                                                                                                                          |                                         |                                                                         |  |  |
|           | SAFETY STANDARDS                           | ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix J suitable for emergency installations(DC input 176-280VDC); BS EN/EN62384 independent, BIS IS15885(Part2/Sec13)(NOTE 14), GB/T19510.1, GB/T19510.213, EAC TP TC 004, UL8750(Class P); CSA C22.2 No. 250.13-12 approved; Design refer to AS/NZS 61347-1, AS/NZS 61347-2-13 |                                         |                                                                         |  |  |
|           | WITHSTAND VOLTAGE                          | I/P-O/P:3.75KVAC                                                                                                                                                                                                                                                                                                                 |                                         |                                                                         |  |  |
|           | ISOLATION RESISTANCE                       | I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH                                                                                                                                                                                                                                                                                      |                                         |                                                                         |  |  |
|           |                                            | Parameter                                                                                                                                                                                                                                                                                                                        | Standard                                | Test Level/Note                                                         |  |  |
|           |                                            | Conducted                                                                                                                                                                                                                                                                                                                        | BS EN/EN55015(CISPR15) ,GB/T 177        |                                                                         |  |  |
|           | EMO EMICCION                               | Radiated                                                                                                                                                                                                                                                                                                                         | BS EN/EN55015(CISPR15) ,GB/T 177        |                                                                         |  |  |
|           | EMC EMISSION                               | Harmonic Current                                                                                                                                                                                                                                                                                                                 | BS EN/EN61000-3-2 . GB17625.1           | Class C @load≥50%                                                       |  |  |
| AFETY &   |                                            | Voltage Flicker                                                                                                                                                                                                                                                                                                                  | BS EN/EN61000-3-3                       |                                                                         |  |  |
| мс        |                                            | BS EN/EN61547                                                                                                                                                                                                                                                                                                                    | B3 EWEN01000-3-3                        |                                                                         |  |  |
|           |                                            |                                                                                                                                                                                                                                                                                                                                  | Ptandand                                | Test Level/Note                                                         |  |  |
|           |                                            | Parameter                                                                                                                                                                                                                                                                                                                        | Standard                                |                                                                         |  |  |
|           |                                            | ESD                                                                                                                                                                                                                                                                                                                              | BS EN/EN61000-4-2                       | Level 3, 8KV air ; Level 2, 4KV contact                                 |  |  |
|           | EMC IMMUNITY                               | Radiated                                                                                                                                                                                                                                                                                                                         | BS EN/EN61000-4-3                       | Level 2                                                                 |  |  |
|           |                                            | EFT/Burst                                                                                                                                                                                                                                                                                                                        | BS EN/EN61000-4-4                       | Level 2                                                                 |  |  |
|           |                                            | Surge                                                                                                                                                                                                                                                                                                                            | BS EN/EN61000-4-5                       | Level 3, 1KV/Line-Line                                                  |  |  |
|           |                                            | Conducted                                                                                                                                                                                                                                                                                                                        | BS EN/EN61000-4-6                       | Level 2                                                                 |  |  |
|           |                                            | Magnetic Field                                                                                                                                                                                                                                                                                                                   | BS EN/EN61000-4-8                       | Level 2                                                                 |  |  |
|           |                                            | Voltage Dips and Interruptions                                                                                                                                                                                                                                                                                                   | BS EN/EN61000-4-11                      | 70% residual voltage for 10 period, 0% residual voltage for 0.5 periods |  |  |
|           | FLICKER Note.6                             | PstLM ≤ 1, SVM ≤ 0.4                                                                                                                                                                                                                                                                                                             |                                         |                                                                         |  |  |
|           | MTBF                                       | 3949.8 K hrs min. Telcordia SR-332 (Bellcore); 338.5 Khrs min. MIL-HDBK-217F (25°C)                                                                                                                                                                                                                                              |                                         |                                                                         |  |  |
| THERS     | DIMENSION                                  | 147*40*32mm,107*40*32mm (L*W*H)                                                                                                                                                                                                                                                                                                  |                                         |                                                                         |  |  |
|           | PACKING                                    | 141.6g; 60pcs/8.4Kg/0.58CUFT(for blank type); 160g; 50pcs/8.1Kg/0.57CUFT(for S-type)                                                                                                                                                                                                                                             |                                         |                                                                         |  |  |
|           |                                            | y mentioned are measured at 230VAC input,                                                                                                                                                                                                                                                                                        | rated current and 25°C of ambient tempe | prature                                                                 |  |  |

#### NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.

  2. De-rating may be need under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.

  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. 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.

  6. Flicker is measured at full load with the light source provided by MEAN WELL.

  7. To fulfill requirement of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.

  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 de-rating of 3.5°C/1000m with fanless models and 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

  10. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (© point (or TMP, per DLC), is about 70°C or less.

  11. For XLC-S series: RCM is on a voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.

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  For ration the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.

  13. For more information, please contact with MEAN WELL sales.

  14. Products sourced from the China regions and some models sourced from India may not have the BIS logo,please refer to

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  \*\*Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

File Name:XLC-25-SPEC 2025-01-20



#### **SPECIFICATION**

| VOLTAGE RANGE FREQUENCY RANGE POWER FACTOR  TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.7 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT                                                                                                                                                                                       | (Please refer to "TOTAL HARMONIC D<br>88%<br>0.35A / 115VAC 0.18A / 230VAC 0<br>COLD START 10A(twidth=100µs measu<br>71 units (circuit breaker of type B) / 71 u<br><0.75mA / 277VAC<br>Standby power consumption<0.5W(Dim<br>Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | , PF ≥ 0.92/277VAC@full load ) CHARACTERISTIC" section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)" section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15VAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
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| DEFAULT CURRENT CURRENT ADJ.RANGE (BY DIP SWITCH OR NFC) CONSTANT CURRENT REGION Note.3 RATED POWER Note.4 CURRENT RIPPLE CURRENT TOLERANCE DIMMING RANGE SETUP, RISE TIME Note.5,6 VOLTAGE RANGE FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.7 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT    | 0.3~1.05A  9~54V  25W  <4%  ±5%  0~100%  500ms, 100ms/230VAC, 1000ms, 100  100~305VAC 141~400VDC  47~63Hz  PF≥0.97/115VAC, PF≥0.95/230VAC; (Please refer to "POWER FACTOR (PF, THD<10% (@load≥50%/230VAC; @l(Please refer to "TOTAL HARMONIC E88%  0.35A/115VAC 0.18A/230VAC COLD START 10A(twidth=100µs measu 71 units (circuit breaker of type B) / 71 to <0.75mA/277VAC  Standby power consumption<0.5W(Dim Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | , PF ≥ 0.92/277VAC@full load ) CHARACTERISTIC" section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)" section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; 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| CURRENT ADJ.RANGE (BY DIP SWITCH OR NFC)  CONSTANT CURRENT REGION Note.3  RATED POWER Note.4  CURRENT RIPPLE  CURRENT TOLERANCE  DIMMING RANGE  SETUP, RISE TIME Note.5,6  VOLTAGE RANGE  FREQUENCY RANGE  POWER FACTOR  TOTAL HARMONIC DISTORTION  EFFICIENCY (Typ.) Note.7  AC CURRENT  INRUSH CURRENT(Typ.)  MAX. No. of PSUs on 16A  CIRCUIT BREAKER  LEAKAGE CURRENT  STANDBY POWER  CONSUMPTION Note.8  SHORT CIRCUIT | 0.3~1.05A  9~54V  25W  <4%  ±5%  0~100%  500ms, 100ms/230VAC, 1000ms, 100  100~305VAC 141~400VDC  47~63Hz  PF≥0.97/115VAC, PF≥0.95/230VAC; (Please refer to "POWER FACTOR (PF, THD<10% (@load≥50%/230VAC; @l(Please refer to "TOTAL HARMONIC E88%  0.35A/115VAC 0.18A/230VAC COLD START 10A(twidth=100µs measu 71 units (circuit breaker of type B) / 71 to <0.75mA/277VAC  Standby power consumption<0.5W(Dim Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | , PF ≥ 0.92/277VAC@full load ) CHARACTERISTIC" section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)" section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15VAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| (BY DIP SWITCH OR NFC) CONSTANT CURRENT REGION Note.3 RATED POWER Note.4 CURRENT RIPPLE CURRENT TOLERANCE DIMMING RANGE SETUP, RISE TIME Note.5,6 VOLTAGE RANGE FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.7 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT                                      | 9~54V  25W  <4% ±5% 0~100% 500ms, 100ms/230VAC, 1000ms, 100 100~305VAC 141~400VDC 47~63Hz PF≥0.97/115VAC, PF≥0.95/230VAC (Please refer to "POWER FACTOR (PF THD<10%(@load≥50%/230VAC; @l (Please refer to "TOTAL HARMONIC DE 88% 0.35A/115VAC 0.18A/230VAC 0 COLD START 10A(twidth=100μs measu 71 units (circuit breaker of type B) / 71 L <0.75mA/277VAC Standby power consumption<0.5W(Dim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | , PF ≥ 0.92/277VAC@full load ) CHARACTERISTIC" section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)" section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; 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| REGION Note.3 RATED POWER Note.4 CURRENT RIPPLE CURRENT TOLERANCE DIMMING RANGE SETUP, RISE TIME Note.5,6 VOLTAGE RANGE FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.7 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT                                                                              | 25W  <4% ±5% 0~100% 500ms, 100ms/230VAC, 1000ms, 100 100~ 305VAC 141 ~ 400VDC 47 ~ 63Hz PF≥0.97/115VAC, PF≥0.95/230VAC; (Please refer to "POWER FACTOR (PF-THD<10% (@load≥50%/230VAC; @l(Please refer to "TOTAL HARMONIC DE 10% (PF-TOTAL HARMONIC DE 10%                             | , PF ≥ 0.92/277VAC@full load ) CHARACTERISTIC" section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)" section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15VAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| CURRENT RIPPLE CURRENT TOLERANCE DIMMING RANGE SETUP, RISE TIME Note.5,6 VOLTAGE RANGE FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.7 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT                                                                                                               | <44% ±5% 0~100% 500ms, 100ms/230VAC, 1000ms, 100 100~305VAC 141~400VDC 47~63Hz PF≥0.97/115VAC, PF≥0.95/230VAC (Please refer to "POWER FACTOR (PF THD<10%(@load≥50%/230VAC; @l (Please refer to "TOTAL HARMONIC DE 88% 0.35A/115VAC 0.18A/230VAC 0 COLD START 10A(twidth=100μs measu 71 units (circuit breaker of type B) / 71 L <0.75mA/277VAC Standby power consumption<0.5W(Dim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | , PF ≥ 0.92/277VAC@full load ) CHARACTERISTIC" section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)" section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15VAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| CURRENT TOLERANCE DIMMING RANGE SETUP, RISE TIME Note.5,6 VOLTAGE RANGE FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.7 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT                                                                                                                              | ±5% 0~100% 500ms, 100ms/230VAC, 1000ms, 100 100~305VAC 141~400VDC 47~63Hz PF≥0.97/115VAC, PF≥0.95/230VAC (Please refer to "POWER FACTOR (PF) THD<10% (@load≥50%/230VAC; @l (Please refer to "TOTAL HARMONIC DE) 88% 0.35A/115VAC 0.18A/230VAC 0 COLD START 10A(twidth=100μs measu 71 units (circuit breaker of type B) / 71 L <0.75mA/277VAC Standby power consumption<0.5W(Dim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | , PF ≥ 0.92/277VAC@full load ) CHARACTERISTIC" section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)" section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15VAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| DIMMING RANGE SETUP, RISE TIME Note.5,6 VOLTAGE RANGE FREQUENCY RANGE POWER FACTOR  TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.7 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT                                                                                                                                               | $0\sim100\%$ $500ms$ , $100ms/230VAC$ , $1000ms$ , $100$ $100\sim305VAC$ $141\sim400VDC$ $47\sim63Hz$ $PF \ge 0.97/115VAC$ , $PF \ge 0.95/230VAC$ (Please refer to "POWER FACTOR (PFTHD< $10\%$ (@load $\ge 50\%$ /230VAC; @lease refer to "TOTAL HARMONIC ENTER EN | , PF ≥ 0.92/277VAC@full load ) CHARACTERISTIC" section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)" section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15VAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| SETUP, RISE TIME Note.5,6 VOLTAGE RANGE FREQUENCY RANGE POWER FACTOR  TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.7 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT                                                                                                                                                             | 500ms, 100ms/230VAC, 1000ms, 100   100~305VAC   141~400VDC   47~63Hz   PF $\geq$ 0.97/115VAC, PF $\geq$ 0.95/230VAC   (Please refer to "POWER FACTOR (PF THD<10% (@load $\geq$ 50%/230VAC; @l (Please refer to "TOTAL HARMONIC DESTRICT OF THOSE OF T                  | , PF ≥ 0.92/277VAC@full load ) CHARACTERISTIC" section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)" section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15VAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| VOLTAGE RANGE FREQUENCY RANGE POWER FACTOR  TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.7 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT                                                                                                                                                                                       | 100~ 305VAC 141 ~ 400VDC 47 ~ 63Hz PF≥0.97/115VAC, PF≥0.95/230VAC (Please refer to "POWER FACTOR (PF) THD<10% (@load≥50%/230VAC; @l (Please refer to "TOTAL HARMONIC DE) 88% 0.35A / 115VAC 0.18A / 230VAC COLD START 10A(twidth=100μs measu) 71 units (circuit breaker of type B) / 71 L <0.75mA / 277VAC Standby power consumption<0.5W(Dim) Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | , PF ≥ 0.92/277VAC@full load ) CHARACTERISTIC" section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)" section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15VAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| FREQUENCY RANGE POWER FACTOR  TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) Note.7 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT                                                                                                                                                                                                     | 47 ~ 63Hz  PF≥0.97/115VAC, PF≥0.95/230VAC (Please refer to "POWER FACTOR (PF) THD<10% (@load≥50%/230VAC; @l (Please refer to "TOTAL HARMONIC DE) 88% 0.35A / 115VAC 0.18A / 230VAC 0 COLD START 10A(twidth=100μs measu 71 units (circuit breaker of type B) / 71 DE <0.75mA / 277VAC  Standby power consumption<0.5W(Dim) Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ) CHARACTERISTIC <sup>®</sup> section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)® section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15VAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| POWER FACTOR  TOTAL HARMONIC DISTORTION  EFFICIENCY (Typ.) Note.7  AC CURRENT  INRUSH CURRENT(Typ.)  MAX. No. of PSUs on 16A  CIRCUIT BREAKER  LEAKAGE CURRENT  STANDBY POWER  CONSUMPTION Note.8  SHORT CIRCUIT                                                                                                                                                                                                            | PF≥0.97/115VAC, PF≥0.95/230VAC (Please refer to "POWER FACTOR (PF THD<10% (@load≥50%/230VAC; @l (Please refer to "TOTAL HARMONIC DB88% 0.35A / 115VAC 0.18A / 230VAC 0.00 START 10A(twidth=100μs measu 71 units (circuit breaker of type B) / 71 U<0.75mA / 277VAC Standby power consumption<0.5W(Dim Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ) CHARACTERISTIC <sup>®</sup> section) oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1 DISTORTION(THD)® section)  0.15A/277VAC ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 15VAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| EFFICIENCY (Typ.) Note.7 AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT OVER TEMPERATURE                                                                                                                                                                                                                                            | THD<10%(@load ≥ 50%/230VAC; @I (Please refer to "TOTAL HARMONIC DE 88% 0.35A / 115VAC 0.18A / 230VAC 0.00 COLD START 10A(twidth=100µs measurements of type B) / 71 L <0.75mA / 277VAC Standby power consumption<0.5W(Dim Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | oad ≥ 75%/277VAC), THD<15%(@load ≥ 50%/1<br>DISTORTION(THD)" section)<br>0.15A/277VAC<br>ured at 50% Ipeak) at 230VAC; Per NEMA 410<br>units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15VAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT                                                                                                                                                                                                                                                                                      | 0.35A / 115VAC 0.18A / 230VAC 0 COLD START 10A(twidth=100μs meast 71 units (circuit breaker of type B) / 71 u <0.75mA / 277VAC Standby power consumption<0.5W(Dim Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| INRUSH CURRENT(Typ.)  MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT OVER TEMPERATURE                                                                                                                                                                                                                                                                               | COLD START 10A(twidth=100µs measured) runits (circuit breaker of type B) / 71 u <0.75mA / 277VAC Standby power consumption<0.5W(Dimediate) recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ured at 50% Ipeak) at 230VAC; Per NEMA 410 units (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT OVER TEMPERATURE                                                                                                                                                                                                                                                                                                     | 71 units (circuit breaker of type B) / 71 u<br><0.75mA / 277VAC<br>Standby power consumption<0.5W(Dim<br>Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | inits (circuit breaker of type C) at 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                             | <0.75mA / 277VAC  Standby power consumption<0.5W(Dim Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| LEAKAGE CURRENT STANDBY POWER CONSUMPTION Note.8 SHORT CIRCUIT OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                             | Standby power consumption<0.5W(Dim<br>Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| CONSUMPTION Note.8 SHORT CIRCUIT OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                           | Hiccup mode, recovers automatically af                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| SHORT CIRCUIT OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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|                                                                                                                                                                                                                                                                                                                                                                                                                             | Blank & B type: De-rating to lowest output level. Recovers automatically after fault condition is removed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|                                                                                                                                                                                                                                                                                                                                                                                                                             | DA2 type: Stage 1: De-rating to 75% loading; Stage 2: De-rating to 50% loading. Recovers automatically after fault condition is removed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                               | Tcase=-25 ~ 85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| MAX. CASE TEMP.                                                                                                                                                                                                                                                                                                                                                                                                             | Tcase=85°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                            | 20 ~ 90% RH non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                            | ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix J suitable for emergency installations(DC input 176-280VDC); BS EN/EN62384 independent, BIS IS15885(Part2/Sec13)(NOTE 14), GB/T19510.1, GB/T19510.213, EAC TP TC 004, UL8750(Class P); CSA C22.2 No. 250.13-12 approved; Design refer to AS/NZS 61347-1, AS/NZS 61347-2-13                                                                                                                                                                                                                                                                         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| All parameters NOT specially m     Output hiccups under no-load c     Please refer to "DRIVER METI-     De-rating may be need under Ic     Length of set up time is measu     Based on IEC 62386-101/102 I     power on function, otherwise th     Efficiency is measured at 500m     Standby power consumption is     Flicker is measured at full load                                                                     | parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.  tput hiccups under no-load condition.  asse refer to "DRIVER METHODS OF LED MODULE".  reating may be need under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.  ngth of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.  sed on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller w hich can support for DALI  wer on function, otherwise the startup time will be higher than 0.5 second.  iciency is measured at 500mA/SOV output set by dip-switch or NFC.  andby power consumption is measured at 230VAC.  sker is measured at full load with the light source provided by MEAN WELL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| M V S T V S D V S E E F M D P 123456 789                                                                                                                                                                                                                                                                                                                                                                                    | IAX. CASE TEMP.  VORKING HUMIDITY  TORAGE TEMP., HUMIDITY  EMP. COEFFICIENT  IBRATION  AFETY STANDARDS  VITHSTAND VOLTAGE  SOLATION RESISTANCE  MC EMISSION  MC IMMUNITY  LICKER Note.9  ITBF  IMENSION  ACKING  All parameters NOT specially m  Output hiccups under no-load c  Please refer to "DRIVER METH  De-rating may be need under la  Length of set up time is measu  Based on IEC 62386-101/102 I  power on function, otherwise th  Efficiency is measured at 500m  Standby power consumption is  Flicker is measured at full load  O. The driver is considered as a  installation, the final equipmer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TCASE TEMP.  VORKING HUMIDITY  20 ~ 90% RH non-condensing  TORAGE TEMP., HUMIDITY  40 ~ +80°C, 10 ~ 95% RH  EMP. COEFFICIENT  10 ~ 500Hz, 2G 10min./1cycle, period for the provided service of the service of the provided service of the provided service of the service of the provided service of the provided service of the servi | TCASE TEMP.   TCASE=85°C     VORKING HUMIDITY   20 ~ 90% RH non-condensing     TORAGE TEMP., HUMIDITY   40 ~ +80°C, 10 ~ 95% RH     EMP. COEFFICIENT   ±0.03%/°C (0 − 50°C)     IBRATION   10 ~ 500Hz, 26 10min./1cycle, period for 60min. each along X, Y, Z axes     ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix J suitable for emergence     BS EN/EN62384 independent, BIS IS15885(Part2/Sec13)(NOTE 14), GB/T19510.1, C     UR570(Class P); CSA C22. No. 250.13-12 approved; Design refer to AS/NZS 61347-     ALI STANDARDS   Comply with IEC62386-101,102,207     WITHSTAND VOLTAGE   VIP-0/P:3.75KVAC     VIP-0/P:3.75KVAC   VIP-0/P:3.75KVAC     VIP-0/P:3.75KVAC   VIP-0/P:3.75KVAC     Onducted   BS EN/EN55015(CISPR15), GB/T 17743     Radiated   BS EN/EN55015(CISPR15), GB/T 17743     Harmonic Current   BS EN/EN61000-3-2, GB17625.1     Voltage Flicker   BS EN/EN61000-3-2, GB17625.1     Voltage Flicker   Standard     ESD   BS EN/EN61000-4-2     Radiated   BS EN/EN61000-4-3     EFT/Burst   BS EN/EN61000-4-5     Conducted   BS EN/EN61000-4-6     Magnetic Field   BS EN/EN61000-4-6     Magnetic Field   BS EN/EN61000-4-1     LICKER Note.9   PstLM ≤ 1, SVM ≤ 0.4     ITBF   3949.8 K hrs min. Telcordia SR-332 (Bellcore); 338.5 Khrs min. MIL-HDBK-217F.     IMENSION   147*40*32mm, 107*40*32mm (L*W*H)     ACKING   147*40*32mm, 107*40*32mm (L*W*H)     ACKING   147*60*32mm, 107*40*32mm (L*W*H)     ACKI |  |

(as available on https://www.meanwell.com//Upload/PDF/EMÍ\_statement\_en.pdf)

11. For XLC(except -S) series: RCM is on a voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.

For XLC-S series: RCM is on a voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.

For XLC-S series: RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations.

12. 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.

13. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (©) point (or TMP, per DLC), is about 70°C or less.

14. Products sourced from the Cherical regions and some models sourced from India may not have the BIS logo.please refer to BIS certificate for details and contact your MEAN WELL sales for more information.

15. The ambient temperature de-rating of 3.5°C/1000m with fanless models and 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

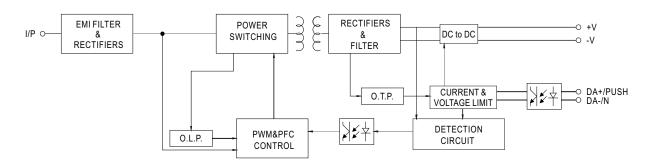
16. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.

17. For more information, please contact with MEAN WELL sales.

\*\*Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



## ■ BLOCK DIAGRAM

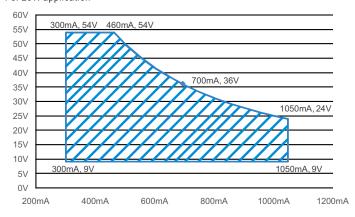


## ■ DRIVING METHODS OF LED MODULE

#### 

#### O XLC-25-H

#### For 25W application



## ■ CONSTANT POWER TABLE

 ${\tt XLC-25-H}\ is\ a\ multiple-stage\ constant\ power\ driver,\ selection\ of\ output\ current\ through\ DIP\ switch\ or\ NFC\ setting\ is\ exhibited\ below.$ 

| Vo    | lo DIP S.W     | 1  | 2  | 3  |
|-------|----------------|----|----|----|
| 9~54V | 300mA          |    |    |    |
| 9~54V | 350mA          |    |    | ON |
| 9~54V | 400mA          |    | ON |    |
| 9~50V | 500mA          |    | ON | ON |
| 9~42V | 600mA          | ON |    |    |
| 9~36V | 700mA(default) | ON |    | ON |
| 9~28V | 900mA          | ON | ON |    |
| 9~24V | 1050mA         | ON | ON | ON |

Note: The operating voltage range which show on this table is recommend to use.



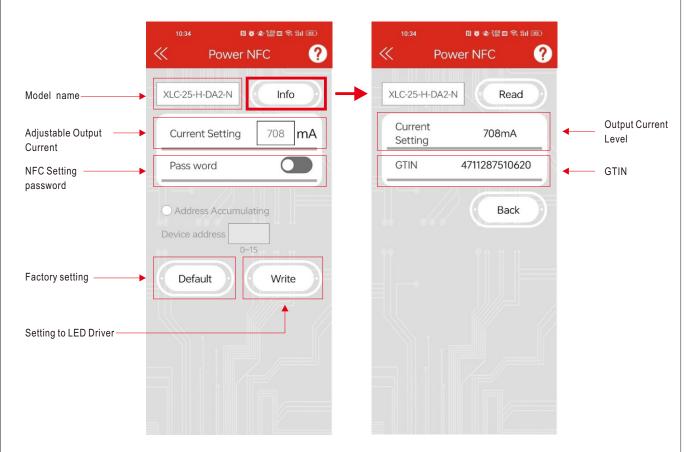
#### ■ NFC Function Description

- 1. The output current of the NFC Mode LED driver can be adjusted using NFC via the mobile APP. Operation Instruction:
- Compatible phone
  - Install an NFC-compatible smart mobile device or phone with AndroidTM 4.1 or IOS12 updates.
- Steps for setting output current via NFC
- 1. Download Meanwell APP on mobile device or mobile phone, and enable NFC function.
- 2. Check the NFC antenna position of the mobile phone please.

  3. Enter Meanwell APP -> Top left menu Installation Manual/APP-> PowerNFC, approach the LED driver NFC sensing position and perform sensing.
- 4. APP displays the functional parameters, and the relevant parameters are modified as required.
- 5. Tap the APP write button and quickly move the phone antenna close to the NFC sensing position of the LED driver.
- 6. The write completes when the mobile phone displays "Success".

#### **APP Function Description**

#### **※** APP Interface:



• To be used through APP available on Apple Store and Google Play Store for iOS and Android. Search: MEAN WELL on





Note: 1. Current accuracy: the numerical error between the set current and the actual current is within 2%.

2. Please turn off the input power supply to the LED driver when using NFC function.

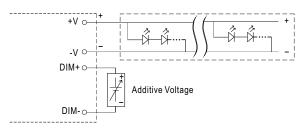


## **■ DIMMING OPERATION**

B type

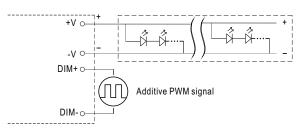
#### % 3 in 1 dimming function

- 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.)



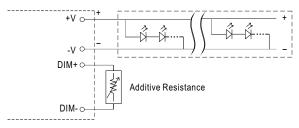
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 300Hz~3KHz):

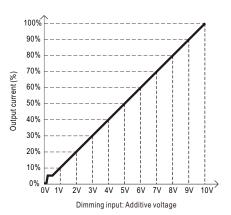


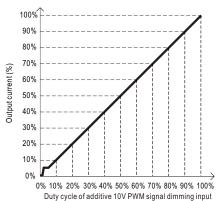
"DO NOT connect "DIM- to -V"

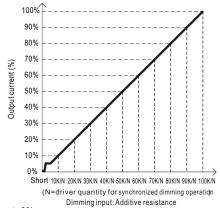
 $\bigcirc$  Applying additive resistance: 0~100k  $\Omega$ 



"DO NOT connect "DIM- to -V"







Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

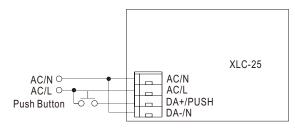
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

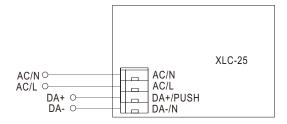


## ■ DIMMING OPERATION

#### O DA2 type (DALI-2 digital dimming function)

#### **※** Input wiring diagram





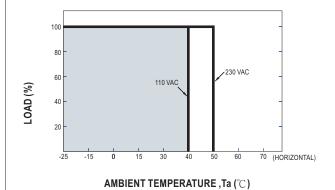
#### ★PUSH dimming (primary side)

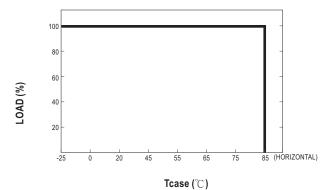
- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
  The maximum length of the cable from the push button to the last driver is 20 meters.

| Action       | Action duration | Function                                                          |
|--------------|-----------------|-------------------------------------------------------------------|
| Short Push   | 0.1~1s          | Turn ON-OFF the driver                                            |
| Double Click |                 | Set up the dimming level to 100%                                  |
| Long Push    | 1.5~10s         | Every Long Push changes the dimming direction, dimming up or down |

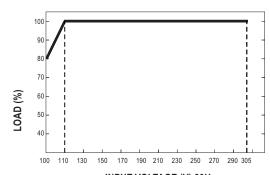


## ■ OUTPUT LOAD vs TEMPERATURE

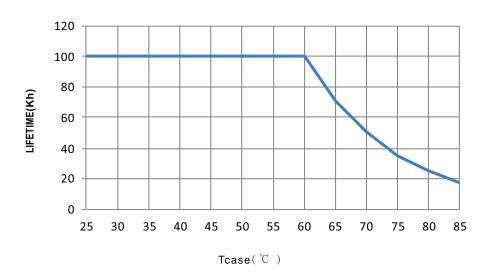




## ■ STATIC CHARACTERISTIC



## ■ LIFE TIME

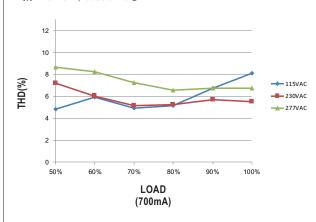


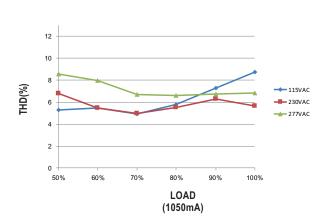


# ■ TOTAL HARMONIC DISTORTION (THD)

※ XLC-25-H,Tcase at 75

°C

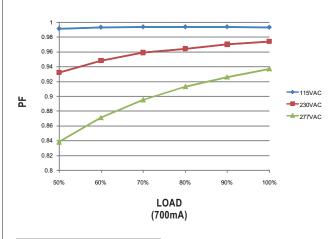


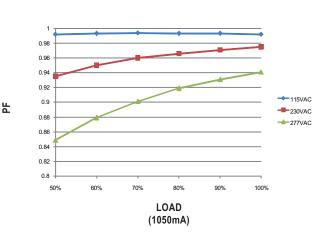


## **■ POWER FACTOR (PF) CHARACTERISTIC**

※ XLC-25-H,Tcase at 75°

C



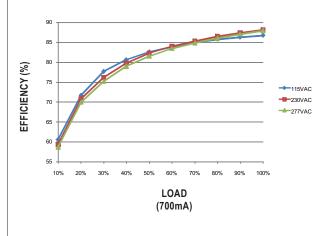


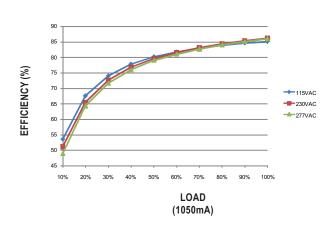
#### **■** EFFICIENCY vs LOAD

XLC-25 series possess superior working efficiency that up to 88% can be reached in field applications.

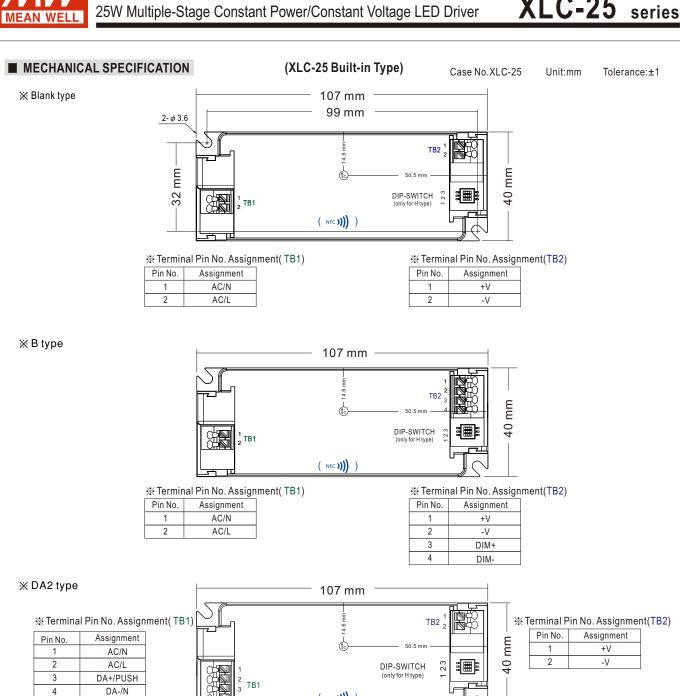
※ XLC-25-H,Tcase at 75°

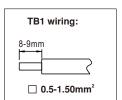
C











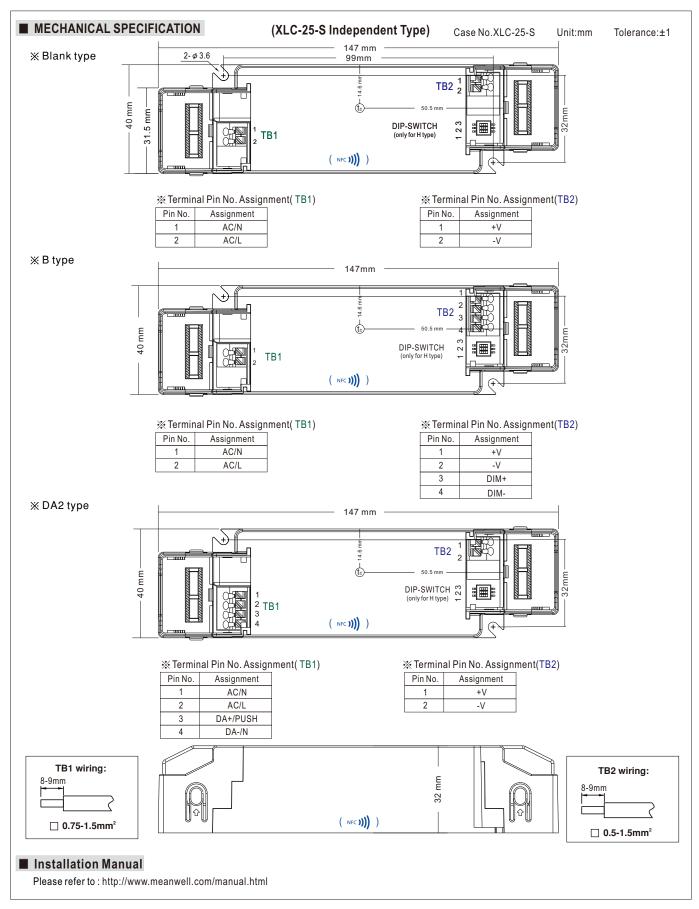


( NFC ))) )

|    | TB2 wiring:   |
|----|---------------|
| 40 | 8-9mm         |
| _  | ☐ 0.5-1.50mm² |

| Item              | Order No.   | Quantity(MOQ/1Bag) |
|-------------------|-------------|--------------------|
| Strain-relief cap | 1**3XLC-SET | 50pcs (2pcs 1 set) |







# 

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