

Наличие и актуальные цены на

SLD-50-12

https://www.mean-well.ru/store/SLD-50-12/































■ Features

- · Constant Voltage + Constant Current mode output
- Wide input range 110-305VAC with PFC function
- · Compliance with BS EN/EN61347 regulation
- Class 2/
 II power unit
- · Slim and Linear housing Design
- No load power consumption < 0.5W
- · 3 years warranty

Applications

- · Panel lighting
- · Strip lighting
- · Decoration lighting
- · Troffer lighting
- · Signage and display
- · Cove lighting

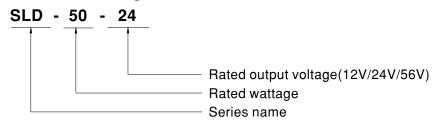
■ GTIN CODE

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

Description

SLD-50 series is a 50W AC/DC LED driver featuring the dual modes constant voltage and constant current output. SLD-50 operates from 110 \sim 305VAC and offers models with different rated voltage ranging between 12V and 56V. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -20°C ~ +90°C case temperature under free air convection. SLD-50 design with low profile and linear housing which is good for signage and linear luminaire applications.

■ Model Encoding





SPECIFICATION

| PECIFIC MODEL | Allon | SLD-50-12 | | SLD-50-24 | | | |
|------------------|--|--|--|-----------------|---|--|--|
| | DC VOLTAGE | 12V | | 24V | | | |
| | CONSTANT CURRENT REGION Note.2 | | | | | | |
| | RATED CURRENT | 8.4 ~12V | | | | | |
| | RATED POWER Note.5 | | | 50.4W | | | |
| | RIPPLE & NOISE (max.) Note.3 | | | 240mVp-p | | | |
| OUTPUT | VOLTAGE TOLERANCE Note.4 | | | | | | |
| | LINE REGULATION | ±0.5% ±0.5% | | | | | |
| | LOAD REGULATION | ±0.5% ±0.5% ±0.5% | | | | | |
| | SETUP, RISE TIME Note.6 | 500ms, 80ms 115VAC / 230VAC | | | | | |
| | HOLD UP TIME (Typ.) | 10ms/230VAC 10ms/115VAC | | | | | |
| INPUT | HOLD OF TIME (Typ.) | | 110 ~ 305VAC 155 ~ 431VDC | | | | |
| | VOLTAGE RANGE Note.5 | (Please refer to "STATIC CHARACTERISTIC" section) | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
| | POWER FACTOR | $\label{eq:pf} PF \!$ | | | | | |
| | TOTAL HARMONIC DISTORTION | THD<10%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section) | | | | | |
| | EFFICIENCY (Typ.) | 88% 90% | | | | | |
| | AC CURRENT | 0.6A / 115VAC | | | | | |
| | INRUSH CURRENT(Typ.) | COLD START 50A(twidth=270µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 | | | | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 8 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC | | | | | |
| | LEAKAGE CURRENT | <0.25mA / 277VAC | | | | | |
| | NO LOAD POWER CONSUMPTION | | | | | | |
| | | 95~108% | | | | | |
| | OVER CURRENT | Constant current limiting or Hiccup mode, recovers automatically after fault condition is removed | | | | | |
| | SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed | | | | | |
| ROTECTION | | 14 ~ 17V 28 ~ 34V | | | | | |
| | OVER VOLTAGE | Shut down and latch off o/p voltage, re-power on to recover | | | | | |
| | OVER TEMPERATURE | Shut down output voltage, re-power on to recover | | | | | |
| | WORKING TEMP. | Tcase=-20 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) | | | | | |
| | MAX. CASE TEMP. | Tcase=+90°C | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | |
| NVIRONMENT | STORAGE TEMP., HUMIDITY | -40 ~ +80°C, 10 ~ 95% RH | | | | | |
| MYINOMILIA | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | | | | | |
| | VIBRATION | , , | pariod for 72min each along Y V | 7 2000 | | | |
| | VIDICATION | 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes | | | | | |
| | SAFETY STANDARDS | UL8750,CSA C22.2 No. 250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, EAC TP TC 004, GB19510.1,GB19510.14, IS15885(Part2/Sec13) ,EN60335-1 approved | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3.75KVAC | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH | | | | | |
| | EMC EMISSION | Parameter | Standard | | Test Level / Note | | |
| | | Conducted | BS EN/EN55015(CISPR15) ,GI | B/T 17743, | | | |
| | | Radiated | EN IEC 55014-1(CISPR 14-1) BS EN/EN55015(CISPR15), GI | 3/T 17743, | | | |
| | | Harmonic Current | EN IEC 55014-1(CISPR 14-1) BS EN/EN61000-3-2,GB17625 | 1 | Class C @load≥60% | | |
| SAFFTY & | | Voltage Flicker | BS EN/EN61000-3-3 | | | | |
| AFETY & | | remage : menter | | | | | |
| | | BS EN/EN61547 .EN IEC 55014 | | | | | |
| | | BS EN/EN61547 ,EN IEC 55014 Parameter | | | Test Level / Note | | |
| | | | 4-2 | | | | |
| | | Parameter | 4-2 Standard | | Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 | | |
| | | Parameter ESD | 4-2 Standard BS EN/EN61000-4-2 | | Level 3, 8KV air ; Level 2, 4KV contact | | |
| | EMC IMMUNITY | Parameter ESD Radiated EFT / Burst | 4-2 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 | | Level 3, 8KV air ; Level 2, 4KV contact Level 2 | | |
| | EMC IMMUNITY | Parameter ESD Radiated | 4-2 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 | | Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 | | |
| | EMC IMMUNITY | Parameter ESD Radiated EFT / Burst Surge | 4-2 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 | | Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 1KV/Line-Line | | |
| | EMC IMMUNITY | Parameter ESD Radiated EFT / Burst Surge Conducted | #-2 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 | | Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 1KV/Line-Line Level 2 | | |
| | EMC IMMUNITY | Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions | #4-2 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 | n. MIL-HDBK-217 | Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 2 1KV/Line-Line Level 2 Level 2 70% residual volatge for 10 periods, 0% residual volatge for 0.5 periods, 40% residual volatge for 10 periods, 70% residual volatge for 25 periods | | |
| SAFETY & EMC | | Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions | #4-2 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11 | n. MIL-HDBK-217 | Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 2 1KV/Line-Line Level 2 Level 2 70% residual volatge for 10 periods, 0% residual volatge for 0.5 periods, 40% residual volatge for 10 periods, 70% residual volatge for 25 periods | | |

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

 2. Please refer to "DRIVING METHODS OF LED MODULE".

 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

 4. Tolerance: includes set up tolerance, line regulation and load regulation.

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

 6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.

 7. 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)

 8. This series meets the typical life expectancy of >30,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less.

 9. RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations but recommend to be used for commercial decoration/sign board/Luminaire lighting purpose.

 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com/

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

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SPECIFICATION

| MODEL | | SLD-50-56 | | | | | |
|-------------|--------------------------------|---|---|---|--|--|--|
| | RATED CURRENT | 1050mA | | | | | |
| | RATED POWER Note.2 | 50.4W | | | | | |
| | CONSTANT CURRENT REGION Note.3 | 30 ~56V | | | | | |
| | FULL POWER CURRENT RANGE | 900~1400mA | | | | | |
| DUTPUT | OPEN CIRCUIT VOLTAGE (max.) | | | | | | |
| 0011 01 | CURRENT ADJ. RANGE | 450-1400mA | | | | | |
| | CURRENT RIPPLE | | | | | | |
| | CURRENT TOLERANCE | 5.0%(@rated current) | | | | | |
| | | ±5% | | | | | |
| | SET UP TIME Note.5 | 500ms/230VAC, 1200ms/115VAC | | | | | |
| | VOLTAGE RANGE Note.2 | 110 ~ 305VAC 155VDC ~ 431VDC | | | | | |
| | | (Please refer to "STATIC CHARACTERISTIC" ang "DRIVING METHODS OF LED MODULE"section) | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
| | DOWED EASTOR (T) | PF≥0.97 / 115VAC, PF≥0.95 / 230VAC, PF≥0.92 / 277VAC at full load | | | | | |
| | POWER FACTOR (Typ.) | (Please refer to "Power Factor Characteristic" section) | | | | | |
| | | THD<10% (@ load≥60% at 115VAC/230VAC ,@load≥75% at 277VAC) | | | | | |
| | TOTAL HARMONIC DISTORTION | Please refer to "TOTAL HARMONIC DISTORTION (THD)" section | | | | | |
| INPUT | EFFICIENCY (Typ.) | 90% | | | | | |
| INFUI | | | | | | | |
| | AC CURRENT (Typ.) | 0.6A / 115VAC | | | | | |
| | INRUSH CURRENT(Typ.) | COLD START 50A(twidth=270µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 | | | | | |
| | MAX. NO. of PSUs on 16A | 8 unit(circuit breaker of type B) / 16 units(circuit breaker of type C) at 230VAC | | | | | |
| | CIRCUIT BREAKER | | | | | | |
| | LEAKAGE CURRENT | <0.25mA/277VAC | | | | | |
| | NO LOAD POWER CONSUMPTION | <0.5W | | | | | |
| | OVER DOWER | 110 ~ 150% | | | | | |
| | OVER POWER | Hiccup mode, recovers automatically after fault condition is removed | | | | | |
| DOTEOTION | SHORT CIRCUIT | Hiccup mode, recovers automatically after fault condition is removed | | | | | |
| PROTECTION | CHOICE CIRCOTT | 61 ~ 80V | | | | | |
| | OVER VOLTAGE | Shut down output voltage, re-power on to recovery | | | | | |
| | OVED TEMPEDATURE | | | | | | |
| | OVER TEMPERATURE | Shut down output voltage, re-power on to recovery | | | | | |
| | WORKING TEMP. | Tcase=-20 ~ +90 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) | | | | | |
| | MAX. CASE TEMP. | Tcase=+90°C | | | | | |
| NVIDONMENT | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | |
| ENVIRONMENT | STORAGE TEMP. | -40 ~ +80℃ | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/℃ (0~60°C) | | | | | |
| | VIBRATION | 10 ~ 500Hz. 2G 12 | 2min./1cycle, period for 72min. each along X, Y, Z axes | | | | |
| | | UL8750,CSA C22.2 No. 250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384 | | | | | |
| | SAFETY STANDARDS | EAC TP TC 004, GB19510.1,GB19510.14, IS15885(Part2/Sec13),EN60335-1 approved | | | | | |
| | WITHSTAND VOLTAGE | I/P-0/P:3.75KVAC | | | | | |
| | ISOLATION RESISTANCE | | | | | | |
| | ISOLATION RESISTANCE | | ms / 500VDC / 25°C / 70% RH | Took Level / Note | | | |
| | EMC EMISSION | Parameter | Standard DS EN/EN/E016/CISDD45\ CD/T 17742 | Test Level / Note | | | |
| | | Conducted | BS EN/EN55015(CISPR15) ,GB/T 17743, EN IEC 55014-1(CISPR 14-1) | | | | |
| | | Radiated | BS EN/EN55015(CISPR15) ,GB/T 17743, | | | | |
| | | radiated | EN IEC 55014-1(CISPR 14-1) | | | | |
| | | Harmonic Curren | BS EN/EN61000-3-2,GB17625.1 | Class C @load≥60% | | | |
| SAFETY & | | Voltage Flicker | BS EN/EN61000-3-3 | | | | |
| MC | EMC IMMUNITY | BS EN/EN61547. EN IEC 55014-2 | | | | | |
| INIC | | , | | Toot Level / Note | | | |
| | | Parameter | Standard P.O. F.N./F.N.04000 4.0 | Test Level / Note | | | |
| | | ESD | BS EN/EN61000-4-2 | Level 3, 8KV air ; Level 2, 4KV contac | | | |
| | | Radiated | BS EN/EN61000-4-3 | Level 2 | | | |
| | | EFT / Burst | BS EN/EN61000-4-4 | Level 2 | | | |
| | | Surge | BS EN/EN61000-4-5 | 1KV/Line-Line | | | |
| | | Conducted | BS EN/EN61000-4-6 | Level 2 | | | |
| | | Magnetic Field | BS EN/EN61000-4-8 | Level 2 | | | |
| | | | | 70% residual volatge for 10 periods , | | | |
| | | Voltage Dips and Interruptions | BS EN/EN61000-4-11 | 0% residual volatge for 0.5 periods, 40% residual volatge for 10 periods, 70% residual volatge for 25 periods | | | |
| | | 4450 4161 | Telcordia SR-332 (Bellcore); 362.8K hrs min. MIL-HDB | (-217F (25°C) | | | |
| | MTRF | 415() 1K hre min | | | | | |
| TUEDO | MTBF | 4150.1K hrs min. | | (2171 (200) | | | |
| THERS | MTBF DIMENSION PACKING | 280*30*16.8mm (L 0.175Kg;64pcs/12 | .*W*H) | (2111 (200) | | | |

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.
 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
 3. Please refer to "DRIVING METHODS OF LED MODULE".
 4. This series meets the typical life expectancy of >30,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less.
 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. 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)
 7. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
 9. RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations but recommend to be used for commercial decoration/sign board/Luminaire lighting purpose.

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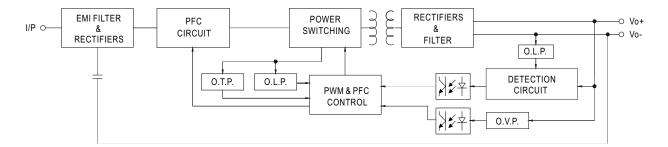
 The Name: St.L.

 File Name: St.L.

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■ BLOCK DIAGRAM

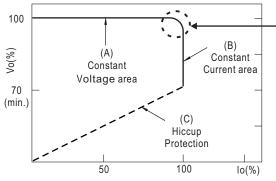
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



■ DRIVING METHODS OF LED MODULE

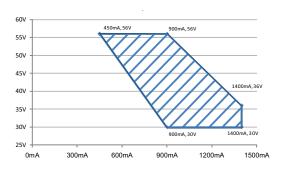
SLD-50-12,24

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

⊚ SLD-50-56



Recommend Performance Region

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

