

Наличие и актуальные цены на

SLD-50-24

https://www.mean-well.ru/store/SLD-50-24/































■ 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

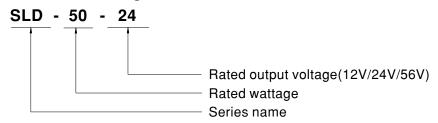
■ GTIN CODE

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

AIION	SI D-50-12		SI D-50-24		
DC VOLTAGE					
` ,					
-					
HOLD UP TIME (Typ.)					
VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)				
FREQUENCY RANGE	47 ~ 63Hz				
POWER FACTOR	$\label{eq:pf} PF \! \geq \! 0.97/115 \text{VAC}, PF \! \geq \! 0.95/230 \text{VAC}, PF \! \geq \! 0.92/277 \text{VAC@full load} \\ \text{(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)}$				
TOTAL HARMONIC DISTORTION	THD< 10%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)				
EFFICIENCY (Typ.)					
AC CURRENT	0.6A / 115VAC				
INRUSH CURRENT(Typ.)					
, , ,	OCED STANT SUA(Wildin-270)3 measured at 50 % speak) at 250 VAO, 1 et NEWA-10				
CIRCUIT BREAKER	8 units (circuit breaker of type E	3) / 16 units (circuit breaker of typ	e C) at 230VAC		
LEAKAGE CURRENT	<0.25mA / 277VAC				
NO LOAD POWER CONSUMPTION					
OVER CURRENT	Constant current limiting or Hiccup mode, recovers automatically after fault condition is removed				
SHORT CIRCUIT					
OVER VOLTAGE					
OVER TEMPERATURE					
	-				
,					
	±0.03%/°C (0~50°C)				
VIBRATION	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, GB19510.14, IS15885(Part2/Sec13) ,EN60335-1 approved				
	I/P-O/P:3.75KVAC				
ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃ / 70% RH				
EMC EMISSION	Parameter		-/	Test Level / Note	
	Conducted		B/T 1//43,		
	Radiated	BS EN/EN55015(CISPR15),G	B/T 17743,		
	Harmonic Current	BS EN/EN61000-3-2,GB17625	.1	Class C @load≥60%	
	Voltage Flicker	BS EN/EN61000-3-3			
	BS EN/EN61547 ,EN IEC 55014	4-2			
		<u>: =</u>			
	Parameter	Standard		Test Level / Note	
	Parameter	Standard			
	Parameter ESD	Standard BS EN/EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact	
EMC IMMUNITY	Parameter ESD Radiated	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 EFT / Burst	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	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	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	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	
	Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	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	
	RATED CURRENT RATED POWER Note.5 RIPPLE & NOISE (max.) Note.3 VOLTAGE TOLERANCE Note.4 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUS on 16A CIRCUIT BREAKER LEAKAGE CURRENT NO LOAD POWER CONSUMPTION OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	DC VOLTAGE DC VOLTAGE CONSTANT CURRENT REGION Note2 RATED CURRENT RATED POWER Note.5 RIPPLE & NOISE (max.) Note.3 VOLTAGE TOLERANCE Note.4 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT NO LOAD POWER CONSUMPTION OVER CURRENT OVER CURRENT OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY DOYLAGE TEMP. WORKING HUMIDITY SAFETY STANDARDS WITHSTAND VOLTAGE IMPOORM WITHSTAND VOLTAGE WITHOUT STAND COLORS (Please refer to "TOTAL HARMONIC DISTORTION PROMER FACTOR PROMER	SLD-50-12	DC VOLTAGE 12V 24V 24	

- 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).

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



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.)	60V					
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)	$PF \ge 0.97 / 115VAC$, $PF \ge 0.95 / 230VAC$, $PF \ge 0.92 / 277VAC$ at full load					
	POWER FACTOR (Typ.)	(Please refer to "Power Factor Characteristic" section)					
		THD< 10% (@ loa	d≥60% at 115VAC/230VAC ,@load≥75% at 277VAC)				
	TOTAL HARMONIC DISTORTION	Please refer to "TOTAL HARMONIC DISTORTION (THD)" section					
INPUT	EFFICIENCY (Typ.)	90%					
	() ()						
	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						
	OVED TEMPEDATURE	Shut down output voltage, re-power on to recovery					
	OVER TEMPERATURE	· · · · · · · · · · · · · · · · · · ·	Shut down output voltage, re-power on to recovery				
ENVIRONMENT	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					
	STORAGE TEMP.	-40 ~ +80°C					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)					
	VIBRATION	10 ~ 500Hz. 2G 12	2min./1cycle, period for 72min. each along X, Y, Z axes				
			independent RS FN/FN62384				
	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:3.75KVA					
	ISOLATION RESISTANCE						
	ISOLATION RESISTANCE		ms / 500VDC / 25°C / 70% RH	Toot Level / Note			
		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)				
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15) ,GB/T 17743,				
	LING LINGGION	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				
	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).
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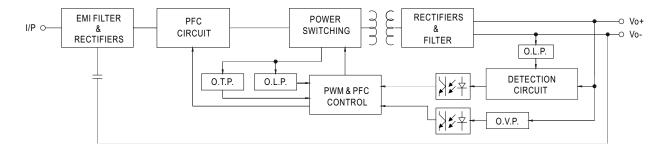
 The Name: St.L.

 File Name: St.L.

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■ BLOCK DIAGRAM

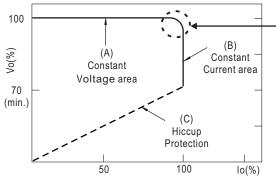
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



■ DRIVING METHODS OF LED MODULE

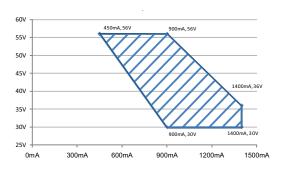
SLD-50-12,24

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.

