



























■ 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 (Except for 12V)
- · 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

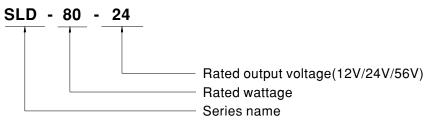
■ GTIN CODE

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

Description

SLD-80 series is a 80W AC/DC LED driver featuring the dual modes constant voltage and constant current output. SLD-80 operates from 110 \sim 305VAC and offers models with different rated voltage ranging between 12V and 56V. Thanks to the high efficiency up to 92%, with the fanless design, the entire series is able to operate for $-20\% \sim +90\%$ case temperature under free air convection. SLD-80 design with low profile and linear housing which is good for signage and linear luminaire applications.

■ Model Encoding





80W Constant Voltage+ Constant Current LED Driver

MODEL		SLD-80-12	SLD-80-24				
DC VOLTAGE		12V	24V				
	CONSTANT CURRENT REGION Note.2	8.4~12V	16.8 ~24V				
	RATED CURRENT	6.6A	3.3A				
		79.2W	79.2W				
OUTPUT	RIPPLE & NOISE (max.) Note.3		240mVp-p				
	VOLTAGE TOLERANCE Note.4		±3.0%				
	LINE REGULATION	±0.5%	±0.5%	_			
	LOAD REGULATION	±1.5%	±0.5%				
			±0.5 %				
	SETUP, RISE TIME Note.6	500ms, 80ms 115VAC / 230VAC					
	HOLD UP TIME (Typ.)	10ms/230VAC 10ms/115VAC					
INPUT	VOLTAGE RANGE Note.5	110~ 305VAC					
	EDECUENCY BANCE	,					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR	PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load (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.)	90.5% 91.5%					
	AC CURRENT	0.9A / 115VAC					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=270µs measured at 50% lpeak) 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	<0.5W					
	NO EGAD I OTTER CONCOMIT HON						
	OVER CURRENT	95 ~ 108% Constant current limiting or Hiccup mode, recovers automatically after fault condition is removed.					
	SHORT CIRCUIT	Constant current limiting or Hiccup mode, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed					
PROTECTION	SHOKT CIRCUIT	14 ~ 17V 28 ~ 34V					
	OVER VOLTAGE	Shut down output voltage, re-power on to recovery					
	OVER TEMPERATURE	Shut down output voltage, re-power on to recovery 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					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEMP.	20~35% KH Hori-condensing -40~+80°C					
	TEMP. COEFFICIENT	-					
		±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	VIBRATION	, , , , , ,	• , ,	42 independent DC EN/EN/C2204			
	SAFETY STANDARDS Note.8	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					
045577/ 0	EMC EMISSION Note.8	Parameter	Standard	Test Level/Note			
		Conducted	BS EN/EN55015(CISPR15), GB/T 17 EN IEC 55014-1(CISPR 14-1)	7743,			
		Padiated	BS EN/EN55015(CISPR15), GB/T 17	7743,			
		Radiated	EN IEC 55014-1 (CISPR 14-1)				
		Harmonic Current	BS EN/EN61000-3-2 ,GB17625.1	Class C @load≥60%			
SAFETY &		Voltage Flicker BS EN/EN61000-3-3					
EMC	EMC IMMUNITY	BS EN/EN61547 ,EN IEC 55014-2	Standard	Toot Love I/Note			
		Parameter ESD	Standard BS EN/EN61000-4-2	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact			
		Radiated	BS EN/EN61000-4-2	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			
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	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			
	MTBF	2666.8K hrs min. Telcordia SR-332 (Bellcore); 260.9K hrs min. MIL-HDBK-217F (25°C)					
		320*30*16.8mm (L*W*H)					
OTHERS	DIMENSION	320 30 10.011111 (L W 11)	0.206 Kg; 64pcs / 14.184Kg / 0.75CUFT				
OTHERS	DIMENSION PACKING	, ,	FT				

- 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 30000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less.

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

 10. 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.

 11. The ambierial decoration/sign board/Luminaire lighting purpose.

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

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



SPECIFICATION

MODEL		SLD-80-56					
	RATED CURRENT	1400mA					
ОИТРИТ	RATED POWER Note.2	78.4W					
	CONSTANT CURRENT REGION Note.3						
	FULL POWER CURRENT RANGE						
	OPEN CIRCUIT VOLTAGE (max.)						
	CURRENT ADJ. RANGE						
		700~2100mA					
	CURRENT RIPPLE	5.0%(@rated current)					
	CURRENT TOLERANCE	±5%					
	SET UP TIME Note.5	500ms/230VAC, 1200ms/115VAC					
	VOLTAGE RANGE Note.2	110 ~ 305VAC 155VDC ~ 431VI					
	TO EITHOL HOLDE	(Please refer to "STATIC CHARACTERISTIC" and " DRIVING METHODS OF LED MODULE"section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	DOWED EACTOR (Turn)	$PF \ge 0.97$ / 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% (@ load≥60% at 115VAC/230VAC, @load≥75% at 277VAC)					
INDIIT	TOTAL HARMONIC DISTORTION	Please refer to "TOTAL HARMONIC DISTORTION (THD)" section					
INPUT	EFFICIENCY (Typ.)	92.0%					
	AC CURRENT (Typ.)	0.9A / 115VAC					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=270µs measured at 50% lpeak) at 230VAC; Per NEMA 410					
	MAX. NO. of PSUs on 16A	OCED OTALL JUAN (MININI Z 1 OLD THE ADULED AL DU /0 I IPBAK) AL ZOUVAO, FEITNE MA 4 10					
		8 unit(circuit breaker of type B) / 16 units(circuit breaker of type C) at 230VAC					
	CIRCUIT BREAKER	40.05A / 0771/AO					
	LEAKAGE CURRENT	<0.25mA/277VAC					
	NO LOAD POWER CONSUMPTION	<0.5W					
	OVER POWER	110 ~ 150%					
		Hiccup mode, recovers automatically after fault condition is removed					
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed					
		60 ~ 70V					
	OVER VOLTAGE	Shut down output voltage, re-power on to recovery					
	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					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEMP.	-40 ~ +80°C					
		W. W.					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)					
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	SAFETY STANDARDS Note.4	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					
SAFETY & EMC	EMC EMISSION Note.4	Parameter	Standard	Test Level/Note			
		Canducted	BS EN/EN55015(CISPR15) ,GB/T 17743,				
		Conducted	EN IEC 55014-1(CISPR 14-1)				
		Radiated	BS EN/EN55015(CISPR15) ,GB/T 17743,				
			EN IEC 55014-1(CISPR 14-1)	Class C @la-d>COM			
		Harmonic Current	BS EN/EN61000-3-2 ,GB17625.1	Class C @load≥60%			
	FACO INCOMINATO	Voltage Flicker	BS EN/EN61000-3-3				
	EMC IMMUNITY	BS EN/EN61547 ,EN IEC 55014-2	Otendend	T411/N-4-			
		Parameter	Standard Co. T. C.	Test Level/Note			
		ESD Particular	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact			
		Radiated	BS EN/EN61000-4-3	Level 2			
		EFT/Burst	BS EN/EN61000-4-4	Level 2			
		Surge	BS EN/EN61000-4-5	1KV/Line-Line			
		Conducted Magnetic Field	BS EN/EN61000-4-6	Level 2			
		Voltage Dips and Interruptions	BS EN/EN61000-4-8 BS EN/EN61000-4-11	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			
	MTBF	2666.8K hrs min. Telcordia SR-332 (Bellcore); 260.9K hrs min. MIL-HDBK-217F (25°C)					
		(- /					
OTHERS	DIMENSION	320*30*16.8mm (L*W*H)					
OTHERS	DIMENSION PACKING	320*30*16.8mm (L*W*H) 0.206 Kg; 64pcs / 14.184Kg / 0.75CU	IFT				

- 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 30000 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.

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

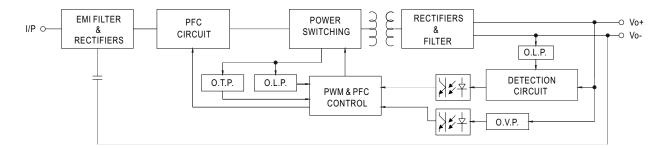
 8. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com

 9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fanless 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.

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

■ BLOCK DIAGRAM

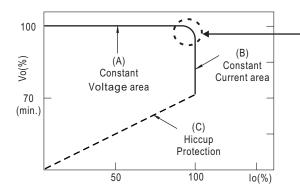
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



■ DRIVING METHODS OF LED MODULE

SLD-80-12,24

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.



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.

Typical output current normalized by rated current (%)

SLD-80-56

