





SLD-80 series





■ Features

- · Constant Voltage + Constant Current mode output
- Wide input range 110-305VAC with PFC function
- · Compliance with 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

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 $110\sim305$ VAC 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 $-20^{\circ}\text{C} \sim +90^{\circ}\text{C}$ 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			
	RATED POWER Note.5	79.2W		79.2W			
DUTPUT	RIPPLE & NOISE (max.) Note.3	150mVp-p 240mVp-p					
OUIPUI	VOLTAGE TOLERANCE Note.4	±4.0% ±3.0%					
	LINE REGULATION	±0.5%		±0.5%			
	LOAD REGULATION	±1.5% ±0.5%					
	SETUP, RISE TIME Note.6	500ms, 80ms 115VAC / 230VAC					
		10ms/230VAC 10ms/115VAC					
INPUT	HOLD UP TIME (Typ.)	110~305VAC 155~431VDC					
	VOLTAGE RANGE Note.5	110~ 305VAC 155~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)					
		,					
	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)					
	TOTAL HARMONIC DISTORTION						
• .	EFFICIENCY (Typ.)	90.5%					
	AC CURRENT	0.9A / 115VAC					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=270µs measured at 50% Ipeak) at 230VAC; Per NEMA 410					
	MAX. No. of PSUs on 16A	OSES OTHER OUNCEMENT ETOPOTHOUSERGE AL OUTST SPECIAL ALE ESONO, TO THE HIM THO					
	CIRCUIT BREAKER	8 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	-0.05A 1.077\/A.O					
		<0.25mA / 277VAC					
	NO LOAD POWER CONSUMPTION	<0.5W					
	OVER CURRENT	95~108%					
	OVERCORRENT	Constant current limiting or Hiccup mode, recovers automatically after fault condition is removed					
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed					
		14~17V 28~34V					
	OVER VOLTAGE	Shut down and latch off o/p voltage, re-power on to recover					
	OVER TEMPERATURE	Hiccup mode, recovers automatically after fault condition is removed					
	WORKING TEMP.	Tcase=-20 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+90°C					
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP.	-40 ~ +80°C					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	SAFETY STANDARDS Note.8	UL8750(type"HL"),CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13 independent, EN62384,					
	OAI ETT STANDARDS NOIE.	EAC TPTC 004, GB19510.1, GB19510.14, IS15885(Part2/Sec13) approved					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC					
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°	C/70% RH				
	EMC EMISSION Note.8	Parameter Standard Test Level/Note					
	Emocinion Notes	Conducted	EN55015(CISPR1	5) .GB/T17743			
		Radiated	EN55015(CISPR1	•			
SAFETY & EMC		Harmonic Current	EN61000-3-2 ,GB		Class C @load≥60%		
		Voltage Flicker	EN61000-3-2 ,GB		Class C @load 200 %		
	EMC IMMUNITY	EN61547	LINU 1000-3-3				
	Emo immoni i	Parameter	Standard		Test Level/Note		
		ESD	EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	EN61000-4-2		Level 2		
		EFT/Burst	EN61000-4-3		Level 2		
		Surge	EN61000-4-4		1KV/Line-Line		
		Conducted	EN61000-4-5		Level 2		
		Magnetic Field	EN61000-4-8		Level 2		
					>95% dip 0.5 periods, 30% dip 25 periods,		
		Voltage Dips and Interruptions	EN61000-4-11		>95% interruptions 250 periods		
	MTBF	867.33K hrs min. Telcordia SR-332 (Bellcore); 260.96K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	320*30*16.8mm (L*W*H)					
=110	PACKING	0.206 Kg; 64pcs / 14.184Kg / 0.75CUFT					
NOTE	Please refer to "DRIVING Mi Ripple & noise are measured Tolerance : includes set up to De-rating may be needed ur Length of set up time is mea The driver is considered as a complete installation, the fina This series meets the typical	vicially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Vicial METHODS OF LED MODULE". Sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Ly to telerance, line regulation and load regulation. Led under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. The measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. The das a component that will be operated in combination with final equipment. Since EMC performance will be affected by the telling the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. Spicial life expectancy of 30000 hours of operation when Tcase, particularly (©) point (or TMP, per DLC), is about 75°C or less. tranty statement on MEAN WELL's website at http://www.meanwell.com Lure derating of 3.5°C/1000m with fainess models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).					







80W Constant Power Mode LED Driver

SLD-80 series

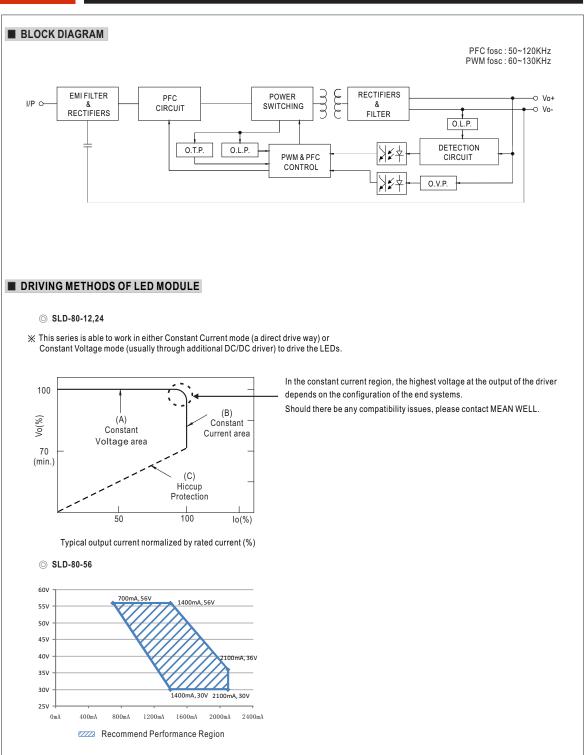
SPECIFICATION

MODEL		SLD-80-56				
RATED CURRENT		SLD-80-56 1400mA				
	RATED CURRENT RATED POWER Note.2	78.4W				
ОИТРИТ	CONSTANT CURRENT REGION Note.3					
	FULL POWER CURRENT RANGE					
	OPEN CIRCUIT VOLTAGE (max.)					
	CURRENT ADJ. RANGE					
	CURRENT RIPPLE	700~2100mA				
	CURRENT TOLERANCE	5.0%(@rated current)				
	SET UP TIME Note.5	±5%				
	SET UP TIME Note.5	500ms/230VAC, 1200ms/115VAC				
INPUT	VOLTAGE RANGE Note.2	110 ~ 305VAC 155VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" and " DRIVING METHODS OF LED MODULE"section)				
	FREQUENCY RANGE					
	FREQUENCT RANGE	47 ~ 63Hz PF≥0.97 / 115VAC. PF≥0.95 / 230VAC. PF≥0.92 / 277VAC at full load				
	POWER FACTOR (Typ.)	PF \(\subseteq 0.97 \) 113VAG, PF \(\subseteq 0.92 \) 23VAG, PF \(\subseteq 0.92 \) 277VAG at full fload (Please refer to "Power Factor Characteristic" section)				
		THD< 10% (@ load ≥60% at 115VAC/230VAC ,@load ≥75% at 277VAC)				
	TOTAL HARMONIC DISTORTION	THU< 10% (@ load ≧ 50% at 115 VAC/230 VAC ,@ load ≧ 75% at 277 VAC) Please refer to "TOTAL HARMONIC DISTORTION (THD)" section				
	EFFICIENCY (T)	92.0%				
	EFFICIENCY (Typ.)					
	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	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 POWER	110 ~ 150%				
		Hiccup mode, recovers automatically after fault condition is removed				
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	60 ~ 70 V				
		Shut down output voltage, re-power on to recovery				
	OVER TEMPERATURE	Hiccup mode, recovers automatically after fault condition is removed				
	WORKING TEMP.	,	DUTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+90°C				
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP.	-40 ~ +80°C				
	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(type"HL"), CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13 independent, EN62384, EAC TP TC 004, GB19510.1,GB19510.14, IS15885(Part2/Sec13) approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C	C/70% RH			
SAFETY & EMC	EMC IMMUNITY	Parameter	Standard	Test Level/Note		
		Conducted	EN55015(CISPR15),GB/T17743			
		Radiated	EN55015(CISPR15),GB/T17743			
		Harmonic Current	EN61000-3-2 ,GB/T17625.1	Class C @load≥60%		
		Voltage Flicker	EN61000-3-3			
		EN61547	1			
		Parameter	Standard	Test Level/Note		
		ESD Particular	EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	EN61000-4-3	Level 2		
		EFT/Burst	EN61000-4-4 EN61000-4-5	1KV/Line-Line		
		Surge Conducted	EN61000-4-5 EN61000-4-6	Level 2		
		Magnetic Field	EN61000-4-8	Level 2		
		Voltage Dips and Interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
	MTBF	867.33K hrs min. Telcordia SR-332 (Bellcore); 260.96K hrs min. MIL-HDBK-217F (25℃)				
OTHERS	DIMENSION	320*30*16.8mm (L*W*H)				
-	PACKING	0.206 Kg; 64pcs / 14.184Kg / 0.75CUFT				
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 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 (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. 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 fan models for operating altitude higher than 2000m(6500ft).					



Technische Fiche



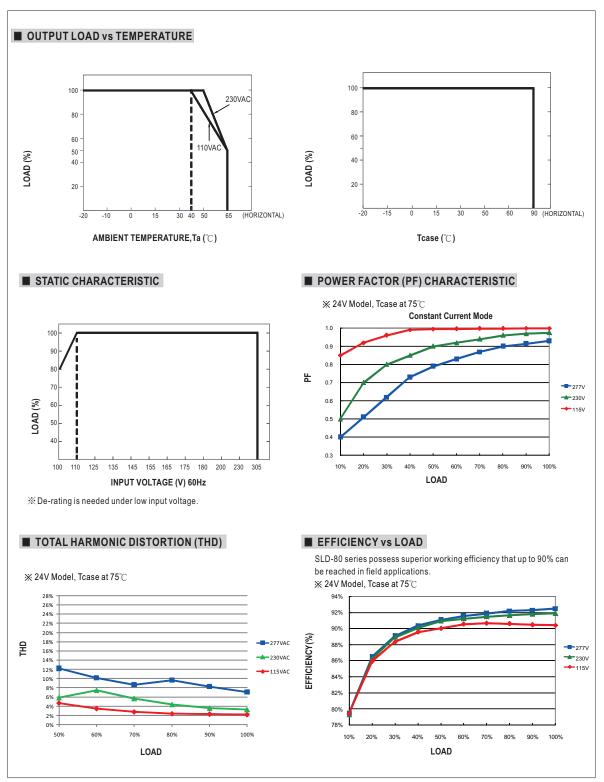




Technische Fiche



80W Linear LED Driver





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80W Linear LED Driver

