



SUNPOWER TECHNOLOGY CORP.
16F-1, No.150, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)
TEL: 886-2-8226-3100 FAX: 886-2-8226-3111
http://www.sunpower.com.tw
E-mail: sunpower@sunpower.com.tw

SDS-025A/B/Cxx Series

25W, Single Output

12V / 24V / 48V DC Input



79 x 50.8 x 28.5 mm
3.11 x 2.0 x 1.12 inch



Features:

- * Power ON with LED indicator
- * Input and output isolation
- * Non min. load requirement
- * Over voltage, over load & short circuit protection
- * Output voltage $\pm 10\%$ adjustment
- * 100% full load burn-in test
- * Meet LVD standard
- * 2 years warranty

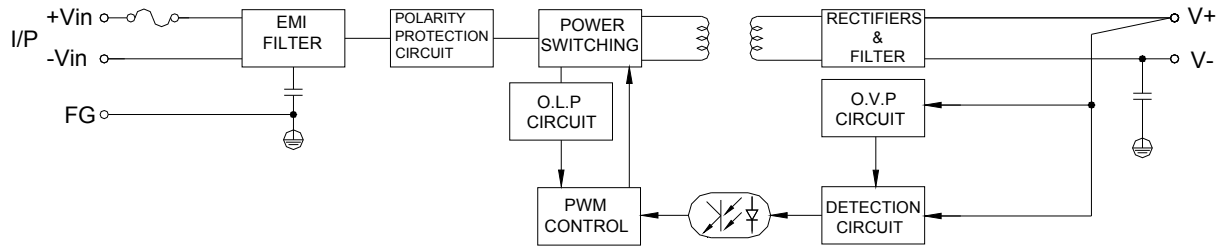
Specification:

INPUT	Model No.		SDS-025Axx Series		SDS-025Bxx Series		SDS-025Cxx Series			
	Voltage		9.5 ~ 18V DC (Typical 12V)		18 ~ 36V DC (Typical 24V)		36 ~ 72V DC (Typical 48V)			
	Current		<3.8A @ 9.5V DC		<2A @ 18V DC		<1A @ 36V DC			
	Protection		Fuse , 5A/250V		Fuse , 3.15A/250V		Fuse , 2A/250V			
OUTPUT	Voltage		5V		12V		24V		48V	
	Min Load		0A		0A		0A		0A	
	Max Load		5A		2.1A		1.1A		0.55A	
	Output Tolerance ②		±2%		±1%		±1%		±1%	
	Ripple Noise MAX. ③		70mV		120mV		200mV		250mV	
	Efficiency (TYP.)	SDS-025A	76%		80%		82%		83%	
		SDS-025B	76%		80%		82%		83%	
		SDS-025C	77%		81%		83%		84%	
Output MAX.		25W		25W		26W		26W		
PROTECTION	Over Voltage		5.6~7.0V		13.8~16.8V		27.6~33.6V		55.2~67.2V	
			Shutdown and latch off, recover after re-start up.							
	OverLoad & ShortCircuit		When power supply over 105%~ 180% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.							
ELEC. CHAR.	Rise time		<20mS							
ENVIRONMENT	Temperature ④		Operating: -10 ~ +70℃ ; De-rating: 50 ~ 70℃ : 2.5%/℃ ; Storage: -20 ~ +85℃							
	Humidity		Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing)							
SAFETY	Withstand voltage		I/P-O/P:2.0KVAC, I/P-FG:1.5KVAC, 1minute							
	Isolation resistance		I/P-O/P, I/P-FG, > 100MΩ/500VDC at 25℃ / 70% RH							
EMC	EMI		EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.							
	EMS		EN 55024 : EN 61000-4-2,3,4,6,8 ; ENV 50204							
OTHERS	Cooling		Natural Cooling.							
	M.T.B.F.		422.3K hours							
	Packing		N.W.: Kg / 1pc; pcs / CUFT / 1 CTN							

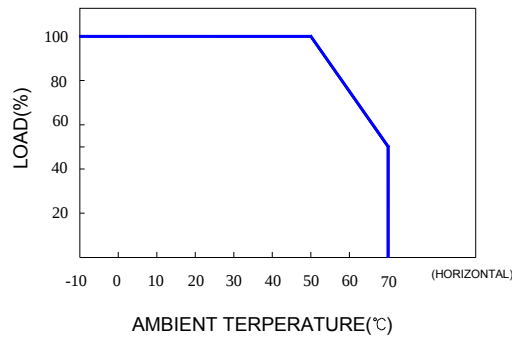
NOTE	① All measurements which not mentioned are based on 12V/24V/48VDC input, output Max at ambient 25°C / 70%RH
	② Output tolerance included set up voltage, line regulation and load regulation.
	③ Ripple & noise are measured at 11~18V/21~36V/42~72VDC input with 10~50°C condition and 20MHz of bandwidth by terminated using a 10" ~15" twisted pair-wire with a 0.1uF & a 47uF parallel capacitor.
	④ The operating temperature shall follow the de-rating curve in spec
	⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.

SDS-025A/B/Cxx Series

Block Diagram : DS1

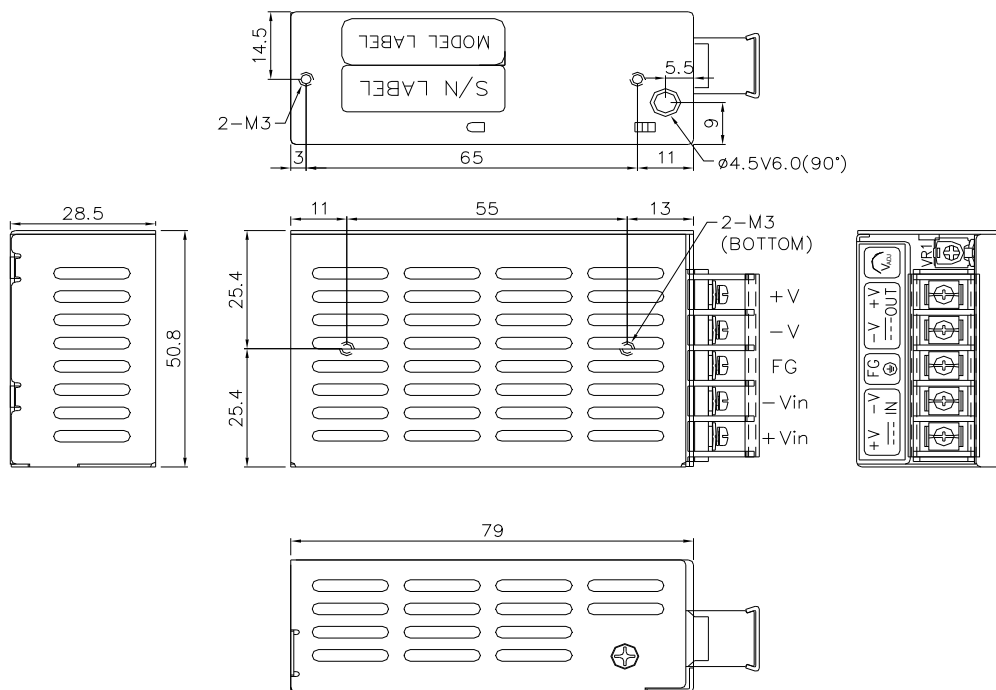


De-rating Curve :



Dimension:

(Unit: mm)



NOTES:

TERMINAL BLOCK: 5P, PITCH 7.62mm with pc cover

MODEL No.	1	2	3	4	5
SDS-025A/B/Cxx	+Vin	-Vin	FG	-V	+V