



SUNPOWER TECHNOLOGY CORP.  
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# SDS-060A/B/Cxx Series

60W, Single Output

12V / 24V / 48V DC Input



159 x 95 x 38 mm  
 6.3 x 3.74 x 1.50 inch



## Features:

- \* Power ON with LED indicator
- \* Input and output isolation
- \* Soft start function, low inrush current
- \* Non min. load requirement
- \* Input under voltage protection
- \* Input polarity reverse protection
- \* 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-060Axx Series		SDS-060Bxx Series		SDS-060Cxx Series		
		Voltage	9.5 ~ 18VDC (Typical 12V)		18 ~ 36VDC (Typical 24V)		36 ~ 72VDC (Typical 48V)	
	Current	<10A@9.5VDC		<4.6A@18VDC		<2.4A@36VDC		
	Protection	Fuse , 15A/125V		Fuse , 6.3A/250V		Fuse , 4A/250V		
OUTPUT	Voltage	3.3V	5V	12V	24V	48V		
	Max Load	15A	12A	5A	2.5A	1.3A		
	Output Tolerance ②	$\pm 3\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$		
	Ripple Noise MAX. ③	70mV	70mV	120mV	200mV	240mV		
	Efficiency (TYP.)	SDS-060A	66%	70%	74%	76%	78%	
		SDS-060B	68%	72%	76%	78%	80%	
SDS-060C		70%	74%	78%	80%	82%		
Output MAX.	49.5W	60W	60W	60W	62W			
PROTECTION	Over Voltage	3.8~4.6V	5.8~7.0V	13.8~16.8V	27.6~33.6V	55.2~67.2V		
		Hiccup and recovers automatically after the fault is removed.						
	Over Load & Short Circuit	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.	Input Voltage	SDS-060B	Under voltage shut down: <15V ~ 17V					
		SDS-060C	Under voltage shut down: <32V ~ 35V					
ENVIRONMENT	Temperature ④	Operating: -10 ~ +70°C ; De-rating: 50 ~ 70°C : 2.5%/°C ; Storage: -20 ~ +85°C						
	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°C / 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.	340 K hours						
	Dimension	159 x 95 x 38 mm (L*W*H)						
	Packing	N.W.: 0.57 Kg / 1pc; 30pcs/ 1.22 CUFT / 1 CTN						

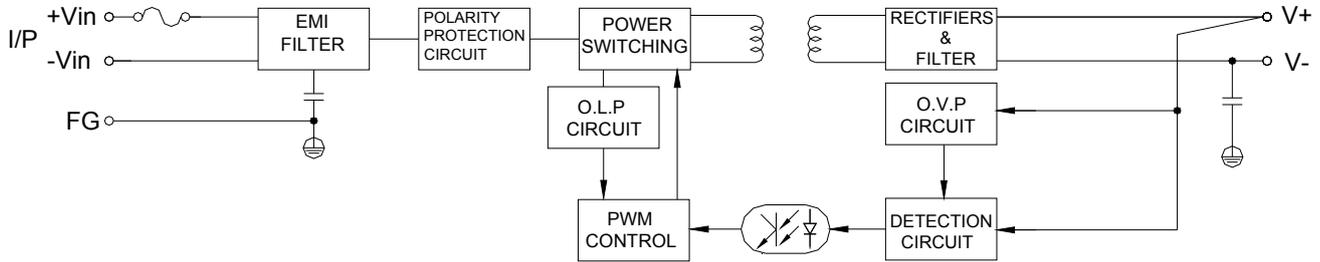
- NOTE
- ① All measurements which not mentioned are based on 12V/24V/48VDC input, **output Max** at ambient 25°C / 70%RH
  - ② Output tolerance included set up voltage, line regulation and load regulation.
  - ③ Ripple & noise are measured at 12~18V/21~36V/42~72VDC input with 10~50°C condition and 20MHz 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.



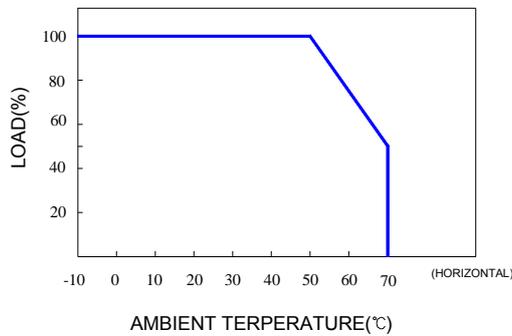
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## Block Diagram : DS1

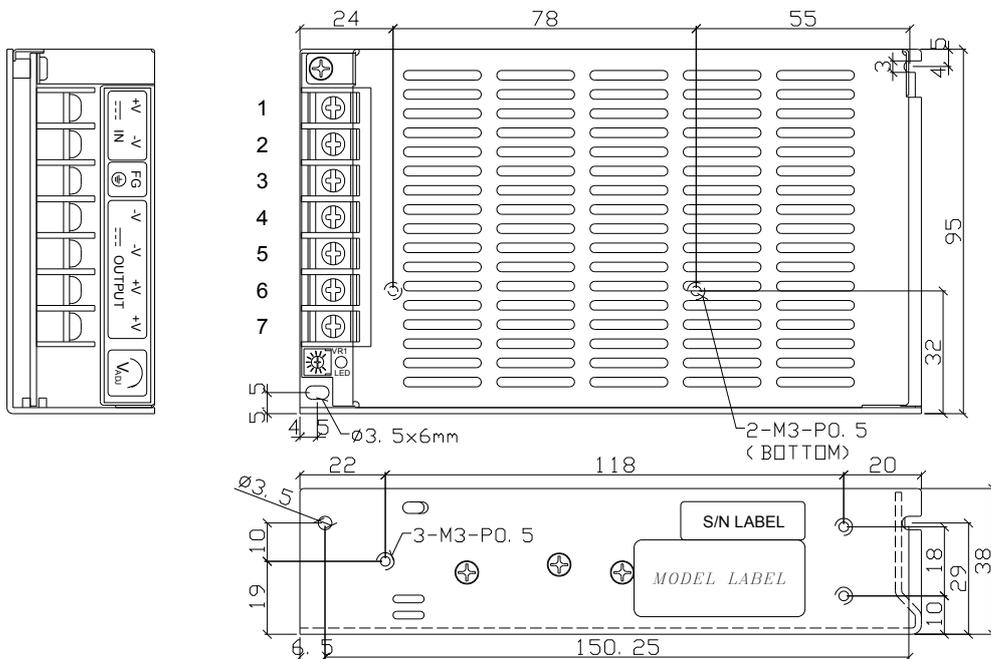


## De-rating Curve :



## Dimension:

(Unit: mm)



### NOTES:

TERMINAL BLOCK: 7P, PITCH 9.5mm with pc cover

MODEL No.	1	2	3	4	5	6	7
SDS-060A/B/Cxx	+Vin	-Vin	FG	-V	-V	+V	+V