



SUNPOWER TECHNOLOGY CORP.  
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# SDS-100 Series

100W, Single Output  
 24V / 48V / 96V Input



198 x 95 x 38 mm  
 7.80 x 3.74 x 1.50 inch

## Features:

Power ON with LED indicator
2:1 input range, input and output isolation
Soft start function, low inrush current
Input over voltage and under voltage protection
Input polarity reverse protection
Over load, over voltage, short circuit protection and Auto recovery
FR4 glass epoxy double side circuit board, meet to UL -94V0, which could work in an environment with high vibration
Non min. load requirement
Output voltage $\pm 10\%$ adjustment
100% 50 burn-in test
Meet UL, cUL, TUV, CB, CE standard
3 years warranty

## Specification:

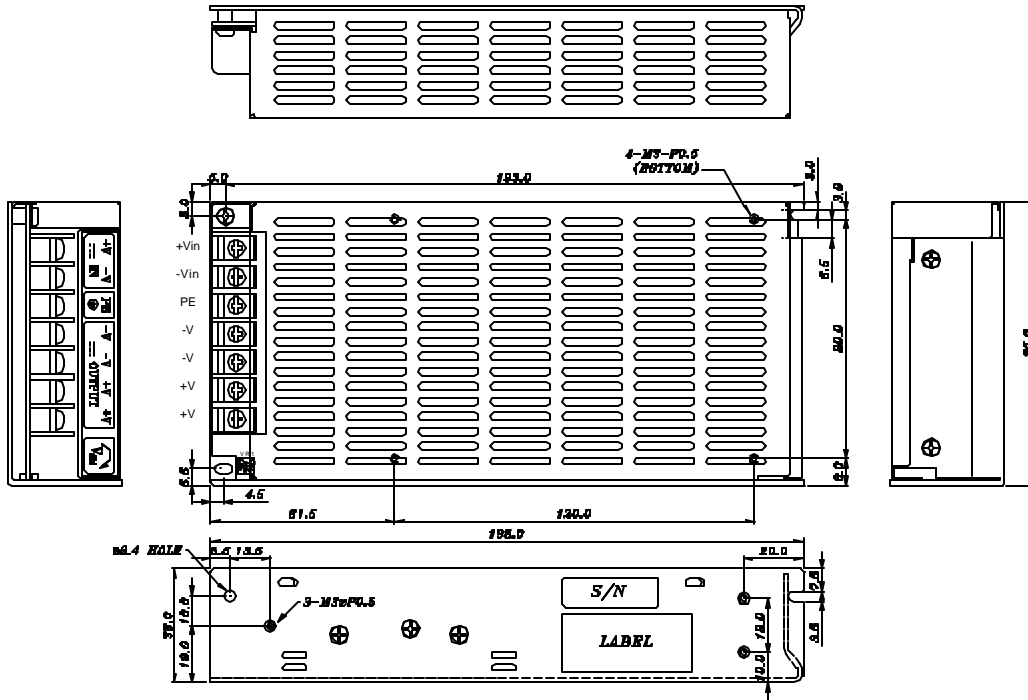
		Model NO.	SDS-100B Series	SDS-100C Series	SDS-100D Series		
INPUT	Voltage		19 ~ 36V DC (Typical 24V)	36 ~ 72V DC (Typical 48V)	72 ~ 144V DC (Typical 96V)		
	Current		<8A@19V DC	<4A@36V DC	<2A@72V DC		
	Inrush Current		<30A@24V DC	<30A@48V DC	<30A@96V DC		
OUTPUT	Voltage		3.3V	5V	12V	24V	48V
	Min. Load				0A		
	Max. Load		25A	20A	8.5A	4.2A	2.1A
	Regulation		$\pm 3\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple Noise (MAX.)		40mV	50mV	100mV	150mV	250mV
	Efficiency (TYP.)		68%	72%	75%	78%	84%
	OVP		3.8~4.6V	5.8~7.0V	13.8~17.5V	27.6~33.6V	55.2~67.2V
	MAX OUTPUT		83W	100W			
PROTECTION	Input Protection	SDS-100B	Ceramic Fuse, 12A/125V.				
		SDS-100C	Ceramic Fuse, 6.3A/125V.				
		SDS-100D	Ceramic Fuse, 4A/250V.				
	Input Voltage Protection Shutdown	SDS-100B	Under voltage protection: <15V ~ 18V; over voltage protection: >37V ~ 42V				
		SDS-100C	Under voltage protection: <32V ~ 35V; over voltage protection: >73V ~ 78V				
		SDS-100D	---				
	Over Load Protection		Over 105% ~ 180% of rating, shutdown and recovers automatically after fault condition has been removed.				
Over Voltage Protection		✓					
Short Circuit Protection		Shutdown, recovers automatically after fault condition has been removed.					
OTHERS	Rise time		<50mS				
	Current sharing		Optional				
	Cooling		Natural Cooling				
Environment	Temperature		Operating: -10~70 ; De-rating: 50 ~70 : 2.5%/ . Storage: -10~+75				
	Humidity		Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)				
M.T.B.F.			SDS-100B 262 K hours	SDS-100C: 249K hours	SDS-100D: 251K hours		
SAFETY			Meet UL 60950-1 <sup>st</sup> , CSA C22.2 No.60950-1-03 1 <sup>st</sup> , TUV EN 60950-1 <sup>st</sup> , IEC 60950-1 <sup>st</sup> , EMKO-TSE (74-SEC)207/94 standard.				
EMC	EMI Standard		EN 55022 CLASS B FCC CFR 47 PART 15 CLASS B CNS 13438 CALSS B.				
	EMS Standard		EN 55024 EN 61000-4-2,3,4,5,6,8				



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Dimension:

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TERMINAL BLOCK : 7P, PITCH 9.5 mm. (STANDARD)  
UNIT:mm