

# 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:

- \* DC Input 24V / 48V / 96V
- \* Inrush current limitation soft start function
- \* Input & output isolation
- \* Input polarity reverse protection
- \* Input under / over voltage protection
- \* Over load, over voltage & short circuit protection
- \* Current sharing (optional)
- \* Output voltage  $\pm 10\%$  adjustment
- \* 100% 50°C burn-in test
- \* UL, cUL, TUV, ,CB, CE standard
- \* 2 years warranty

## Specification:

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 (tpy)		68%	72%	75%	78%	84%
MAX OUTPUT WATTAGE			83W	100W			
INPUT	Voltage	SDS-100B	DC 19V ~ 36V (Typical 24V)				
		SDS-100C	DC 36V ~ 72V (Typical 48V)				
		SDS-100D	DC 72V ~ 144V (Typical 96V)				
	Current	SDS-100B	<8A@19V DC				
		SDS-100C	<4A@36V DC				
		SDS-100D	<2A@72V DC				
Inrush Current	SDS-100B	<30A@24V DC					
	SDS-100C	<30A@48V DC					
	SDS-100D	<30A@96V DC					
PROTECTION	Input Protection	SDS-100B	Under voltage protection: <15V ~ 18V; over voltage protection: >37V ~ 42V				
		SDS-100C	Under voltage protection: <32V ~ 35V; over voltage protection: >73V ~ 78V				
	Over Load Protection	Over 105% ~ 180% of rating, recovers automatically after fault condition has been removed.					
	Over Voltage Protection	3.3V: 3.8V ~ 4.6V	5V: 5.8V ~ 7.0V	12V: 13.8V ~ 17.5V	24V: 27.6V ~ 33.6V	48V: 55.2V ~ 67.2V	
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: 0~70°C; derating: 50°C ~70°C : 2.5%/°C. Storage: -10~+75°C					
	Humidity	Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)					
M.T.B.F.	SDS-100B, SDS-100C: 286K hours; SDS-100D: 285K hours						
SAFETY	Meet UL 60950, CSA C22.2 No.60950, TUV EN 60950, IEC 60950, EMKO-TSE (74-SEC)207/94						
EMC	EMI	FCC CFR 47 PART 15 CLASS B, EN 50081-1, CNS 13438 CALSS B.					
	EMS	EN 50082-1 (1997)					
PACKING	N.W.: 0.7Kg / 1pc; 24pcs / 1.22 Cu ft <sup>3</sup> / 1 CTN						

