



SDS-100D Series - 100W Single Output Enclosed DC-DC Converter

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Features	Standards
<ul style="list-style-type: none">2:1 input range, input and output isolationSoft start function, low inrush currentInput over voltage and under voltage protectionInput polarity reverse protectionOver load, over voltage, short circuit protection and Auto recoveryFR4 glass epoxy double side circuit board, meet to UL-94V0, which could work in an environment with high vibrationNon min. load requirementOutput voltage $\pm 10\%$ adjustment100% 50° burn-in testMeet UL, cUL, TUV, CB, CE standard	 

Specification	
Input Voltage	72VDC ~ 144VDC. Typical 96V.
Input Current	<2A@72V DC
Inrush Current	<30A@96V DC
Input Protection	Ceramic Fuse, 4A/250V.
Over Load Protection	Over 105% ~ 180% of rating, recovers automatically after fault condition has been removed.
Short Circuit Protection	Shutdown, recovers automatically after fault condition has been removed.
Rise Time	<50mS
Current Sharing	Optional
Cooling	Natural Cooling
Operating Temperature	0°C ~ 70°C; derating: 50°C ~ 70°C : 2.5%/°C.
Operating Humidity	20%~85% non condensing
Storage Temperature	-10°C ~ +75°C
Storage Humidity	10%~95% non condensing
M.T.B.F.	285K hours
Safety	Meet UL 60950, CSA C22.2 No.60950, TUV EN 60950, IEC 60950, EMKO-TSE (74-SEC)207/94
EMI	EN 55022 CLASS B □ FCC CFR 47 PART 15 CLASS B □ CNS 13438 CLASS B.
EMS	EN 55024 □ EN 61000-4-2,3,4,5,6,8

Items

SDS- 100D Series

Part No	Voltage	Min Load	Max Load	Regulation	Ripple Noise (MAX)	Efficiency (TYP)	Max Power	Over Voltage Protection
SDS-100D3.3	3.3V	0A	25A	±3%	40mV	68%	83W	3.8V ~ 4.6V
SDS-100D05	5V	0A	20A	±2%	50mV	72%	100W	5.8V ~ 7.0V
SDS-100D12	12V	0A	8.5A	±1%	100mV	75%	100W	13.8V ~ 17.5V
SDS-100D24	24V	0A	4.2A	±1%	150mV	78%	100W	27.6V ~ 33.6V
SDS-100D48	48V	0A	2.1A	±1%	250mV	84%	100W	55.2V ~ 67.2V

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