Sunpower (UK) Ltd, Orion House, Calleva Park, Aldermaston, Berkshire, RG7 8SN.
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SDS-100B Series - 100W Single Output Enclosed DC-DC Converter

Features

- 24V DC Input
- 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
- FR4 glas epoxy double side circuit board, meets UL-94V0 which could work in an environment with high vibration
- Current sharing (optional)
- Output voltage ±10% adjustment
- 100% 50°C burn-in test
- Meets UL, cUL, TUV, CB, CE standard

Standards

CE

Specification

Input Voltage	19VDC ~ 36VDC. Typical 24V.
Input Current	<8A@19V DC
Inrush Current	<30A@24V DC
Under Input Voltage	<15VDC ~ 18VDC
Over Input Voltag	>37VDC ~ 42VDC
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 Sharings	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	Storage: 10% ~ 95% non condensing
M.T.B.F.	262K 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-,3,4,5,5,6,8.

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Items

SDS- 100B Series

Part No	Voltage	Min Load	Max Load	Regulation	Ripple Noise (MAX)	Efficiency (TYP)	Max Power	Over Voltage Protection
SDS-100B3.3	3.3V	0A	25A	±3%	40mV	68%	83W	3.8V ~ 4.6V
SDS-100B05	5V	0A	20A	±2%	50mV	72%	100W	5.8V ~ 7.0V
SDS-100B12	12V	0A	8.5A	±1%	100mV	75%	100W	13.8V ~ 17.5V
SDS-100B24	24V	0A	4.2A	±1%	150mV	78%	100W	27.6V ~ 33.6V
SDS-100B48	48V	0A	2.1A	±1%	250mV	84%	100W	55.2V ~ 67.2V

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