

SD-100 Series

100W Single Output DC-DC Converter



FEATURES

- 2:1 wide input range
- Short circuit / overload / over voltage protections
- 1500VDC I/O isolation
- Built in EMI filter, low ripple & noise
- 100% full load burn-in test
- Fixed switching frequency at 83kHz
- 24V & 48V input voltage design refers to LVD
- Low cost
- High reliability

ENVIRONMENTAL

Operating Temp: -10 to +60°C
With de-rating

Storage Temp: -20 to +85°C

SAFETY / EMC

EN60950-1 CB approved by TUV (for D type only)

EN55022 Class B
EN61000-4-2, 3, 4, 6, 8
ENV50204 / light industry level / criteria A

ELECTRICAL SPECIFICATIONS

Model No. SD-100B-5 SD-100C-5 SD-100D-5 SD-100B-12 SD-100C-12 SD-100D-12 SD-100B-24 SD-100C-24 SD-100D-24

Input Voltage Range B: 19 ~ 36VDC / C: 36 ~ 72VDC / D: 72 ~ 144VDC

Input Current 4.8A at 24VDC / 2.4A at 48VDC / 1.8A at 96VDC

DC Output

Voltage	5V	12V	24V
Current	0 ~ 20A	0 ~ 8.5A	0 ~ 4.2A
Rated Power	100W	102W	100.8W
Ripple & noise (p-p)	100mV	120mV	150mV
Voltage Tolerance	±2.0%	±1.0%	±1.0%
Line Regulation	±0.5%	±0.3%	±0.2%
Load Regulation	±0.5%	±0.3%	±0.2%

Overload 105~135% rated output power. Foldback current limiting. Recovers automatically when condition removed.

Over Voltage 5.75 ~ 6.75V / 10% load 16.8 ~ 20V / 10% load 31.5 ~ 37.5V / 10% load

Hiccup mode. Recovers automatically when condition removed.

Dimensions 199(L) x 98(W) x 38(H)mm

Weight 0.65Kg

Specifications subject to change without notice

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