

500 Watt, SD Series, Fully Enclosed DC-DC Converter

ALL PSU LTD
Electronic Power Solutions

- Wide 4:1 & 2:1 Inputs (19~72 & 72~144 VDC)
- Isolated Output (2000 VAC)
- Remote On/Off Function
- Protections, Short Circuit, Over Load, Over Volt, Over Temperature
- Built In Remote Sense Function
- 3 Year Warranty
- Output OK Signal
- DC Input Active Surge Current Limiting



Specification

Input Voltage Ranges.....	19~72V, 72~144V
Output Voltage.....	See table below, plus adjustment range
Line Regulation.....	+/-0.5% (max)
Load Regulation.....	+/-0.5% (max)
Over Load Protection.....	105~125% constant current limiting (up to 5 sec)
Vibration.....	10-500Hz, 2G 10 min/1 cycle, 60 min along each axis
Isolation Voltage.....	2 kVAC (input to output)
Operating Temperature.....	-20 to +60 °C (see derating curve)
Safety Standards.....	IEC60950-1, CB approved by TUV
EMC Standards.....	EN55022 class B, EN61000-4-2, 3, 4, 6, 8 ENV50204 light industrial level criteria A
Dimensions.....	215(L) x 115(W) x 50(H) mm
MTBF.....	196.3 k hrs (MIL-HDBK-217F) @ 25 °C
Weight.....	1.15 kg

Models and Ratings

Model	Input Voltage	Output Volts / Amps	Output Adjustment	Ripple & Noise	Efficiency
SD-500L-12	19~72 VDC	12 V / 40 A	11~15 V	150 mV	85%
SD-500L-24	19~72 VDC	24 V / 21 A	23~30 V	150 mV	88%
SD-500L-48	19~72 VDC	48 V / 10.5 A	46~60 V	150 mV	89%
SD-500H-12	72~144 VDC	12 V / 40 A	11~15 V	150 mV	86%
SD-500H-24	72~144 VDC	24 V / 21 A	23~30 V	150 mV	89%
SD-500H-48	72~144 VDC	48 V / 10.5 A	46~60 V	150 mV	90%

Notes:

Low voltage input (code L) units derate linearly to 75% power from 24VDC down to 19VDC input

Remotes sense will compensate for up to 0.5V drop

DC OK is an open collector signal and is referenced to pin 4 on connector CN3. The max sink current is 10mA and the max voltage is 13V

For mechanical details & connection details see next page

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