

1000 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)
- Built In Remote On/Off
- Protections, Short Circuit, Over Load, Over Volt, Over Temperature
- Built In Remote Sense Function
- 3 Year Warranty
- Output OK Signal
- 12V / 0.25A Auxiliary Output



Specification

Input Voltage Ranges.....	19~72 or 72~144 VDC
Output Voltage.....	See table below, plus adjustment range
Line Regulation.....	+/-0.5% (max)
Load Regulation.....	+/-0.5% (max)
Input Current.....	23.5A @ 48VDC input, 11.6A @ 96VDC input
Over Load Protection.....	105~125% constant current limiting for up to 5 Seconds
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, EN61000-4-2,3,4,6,8 ENV50204 light industrial level criteria A
Dimensions.....	295(L) x 127(W) x 41(H) mm
MTBF.....	32 k hrs (MIL-HDBK-217F) @ 25 °C
Weight.....	1.94 kg

Models and Ratings

Model	Input Voltage	Output Volts / Amps	Output Adjustment	Ripple & Noise	Efficiency
SD-1000L-12	19~72 VDC	12 V / 60 A	11~15 V	150 mV	84%
SD-1000L-24	19~72 VDC	24 V / 40 A	23~30 V	150 mV	88%
SD-1000L-48	19~72 VDC	48 V / 21 A	46~60 V	150 mV	90%
SD-1000H-12	72~144 VDC	12 V / 60 A	11~15 V	150 mV	85%
SD-1000H-24	72~144 VDC	24 V / 40 A	23~30 V	150 mV	89%
SD-1000H-48	72~144 VDC	48 V / 21 A	46~60 V	150 mV	92%

Notes:

See Static Characteristics on page two of this data sheet for output power derating at input below 48 Volts DC.
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

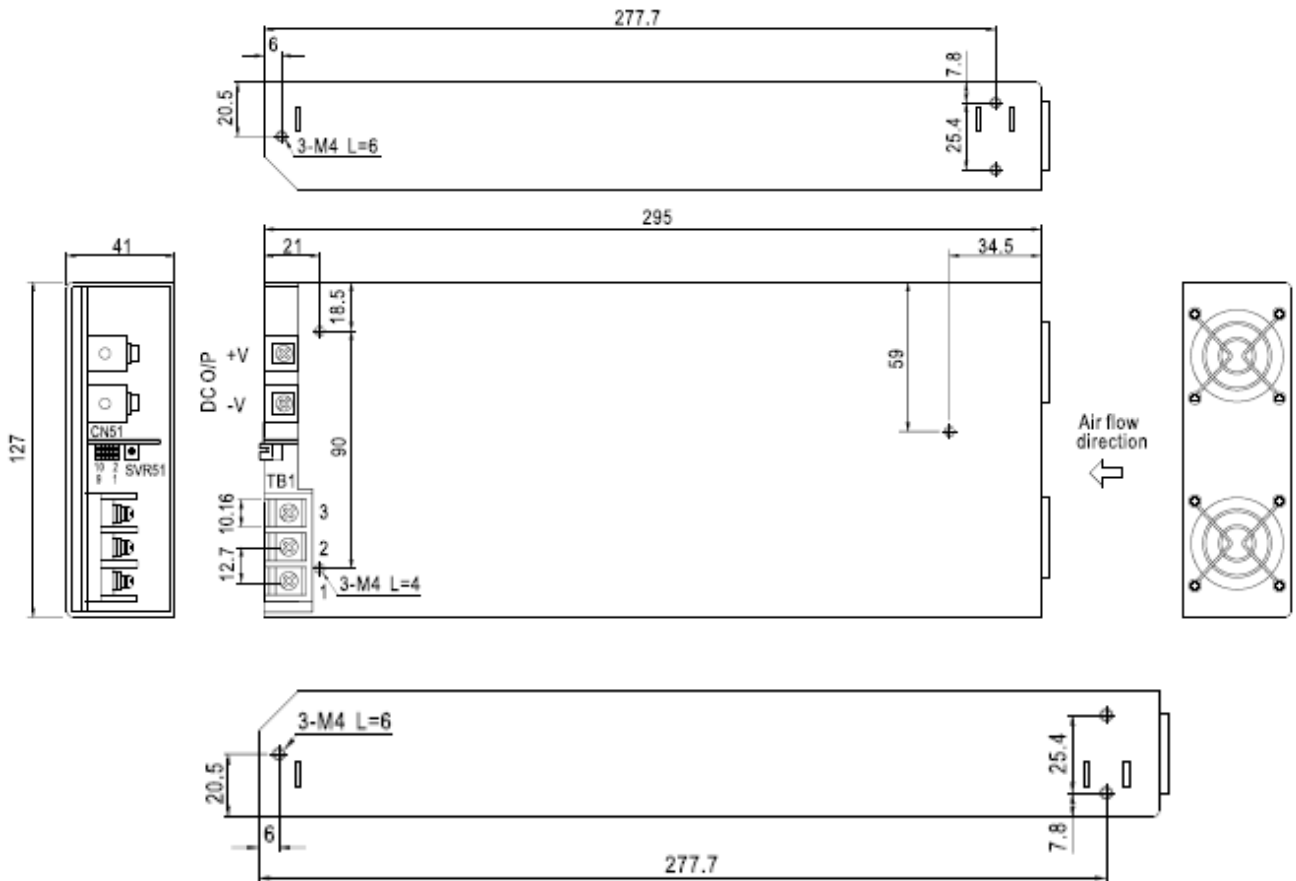
For mechanical & connection details see next page

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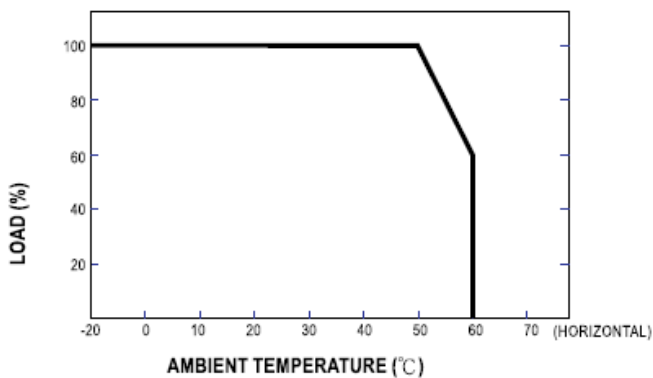
Mechanical Details



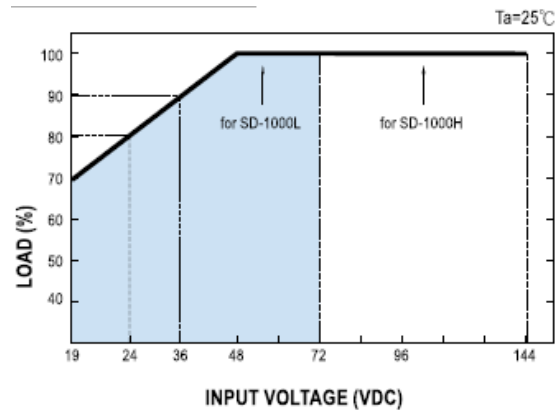
Terminal	Function
CN1 (Main Terminals)	
1	+ DC In
2	- DC In
3	Input Earth

Control pin number assignment (CN51) : JST B10B-PHDSS or equivalent							
Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	+S	5	AUX	9	RCG	JST PHDR-10VS or equivalent	JST SPHD-002T-P0.5 or equivalent
2	-S	6	AUXG	10	NC		
3	OUTPUT OK	7	RC1				
4	GND	8	RC2				

Temperature Derating



Static Characteristics



Specifications may change without notice, E&OE. ALL PSU Terms & Conditions apply.

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