

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:

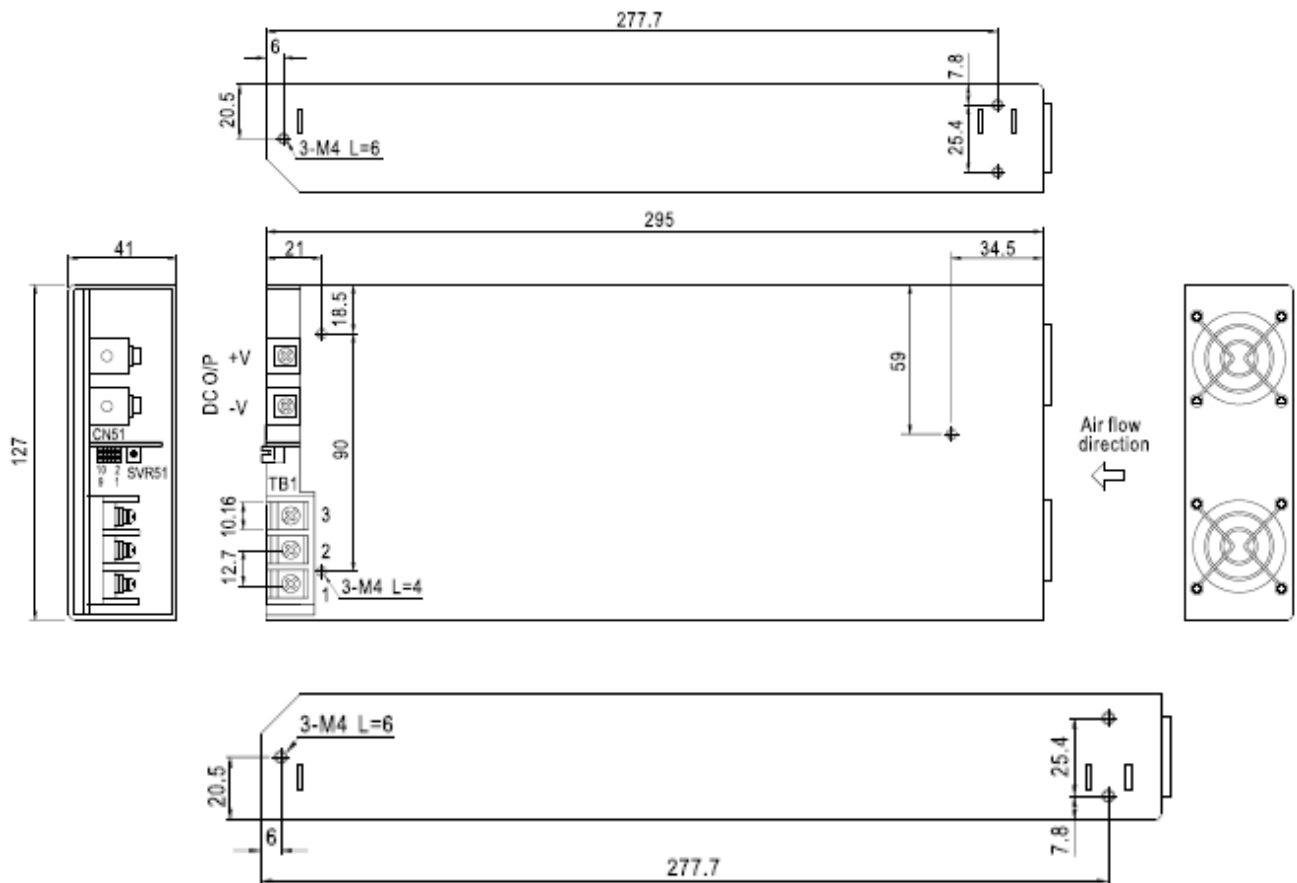
Remotes sense will compensate for up to 0.5V drop

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

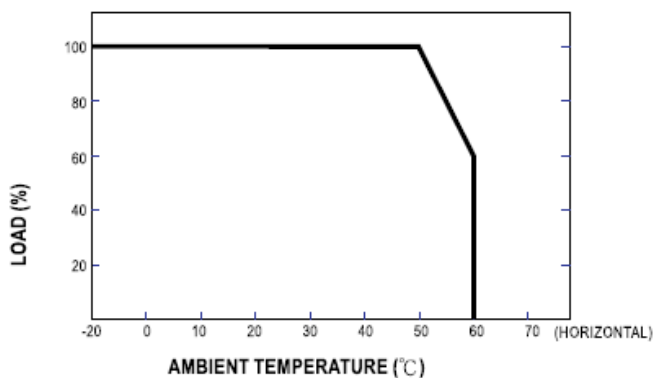


Terminal	Function
CN1 (Main Terminals)	
1	+ DC In
2	- DC In
3	Input Earth

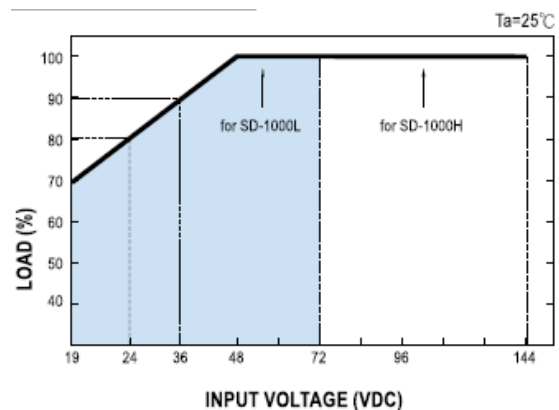
Control pin number assignment (CN51) : JST B10B-PHDSS or equivalent

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.