

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

- DC Inputs From 19 to 144 V
- Isolated Output
- Low Ripple, Built In Filter
- Protections, Short Circuit, Over Load, Over Voltage
- High Reliability
- Adjustable Output
- Conformal Coating Option
- DIN Rail Mounting Options



Specification

Input Voltage.....	See table below, inputs from 19~144 VDC
Output Voltage.....	See table below, plus adjustment range
Line Regulation.....	+/-0.5% (5V O/P), +/-3% (12V O/P), +/-2% (24V O/P)
Load Regulation.....	+/-0.5% (5V O/P), +/-3% (12V O/P), +/-2% (24V O/P)
Over Load Protection.....	105~135% pulsing mode, auto-recovery
Over Voltage Protection.....	115~165% of nominal output voltage, auto recovery
Isolation Voltage.....	I/P-O/P: 1.5 kVAC,
Operating Temperature.....	-10~+60 °C (refer to derating curve)
Safety Standards.....	EN60950-1, TUV (for "D" input type only) 24 & 48 Volt I/P units meet LVD requirements
EMC Standards.....	EN55022 class B, EN61000-4-2,3,4,6,8
Dimensions.....	199(L) x 98(W) x 38(H) mm
MTBF.....	356.9 khrs(SD100B), 355.5 khrs(SD100C), 341.9 khrs(SD100D) (MIL-HDBK-217F) @ 25 °C
Weight.....	0.65 kg

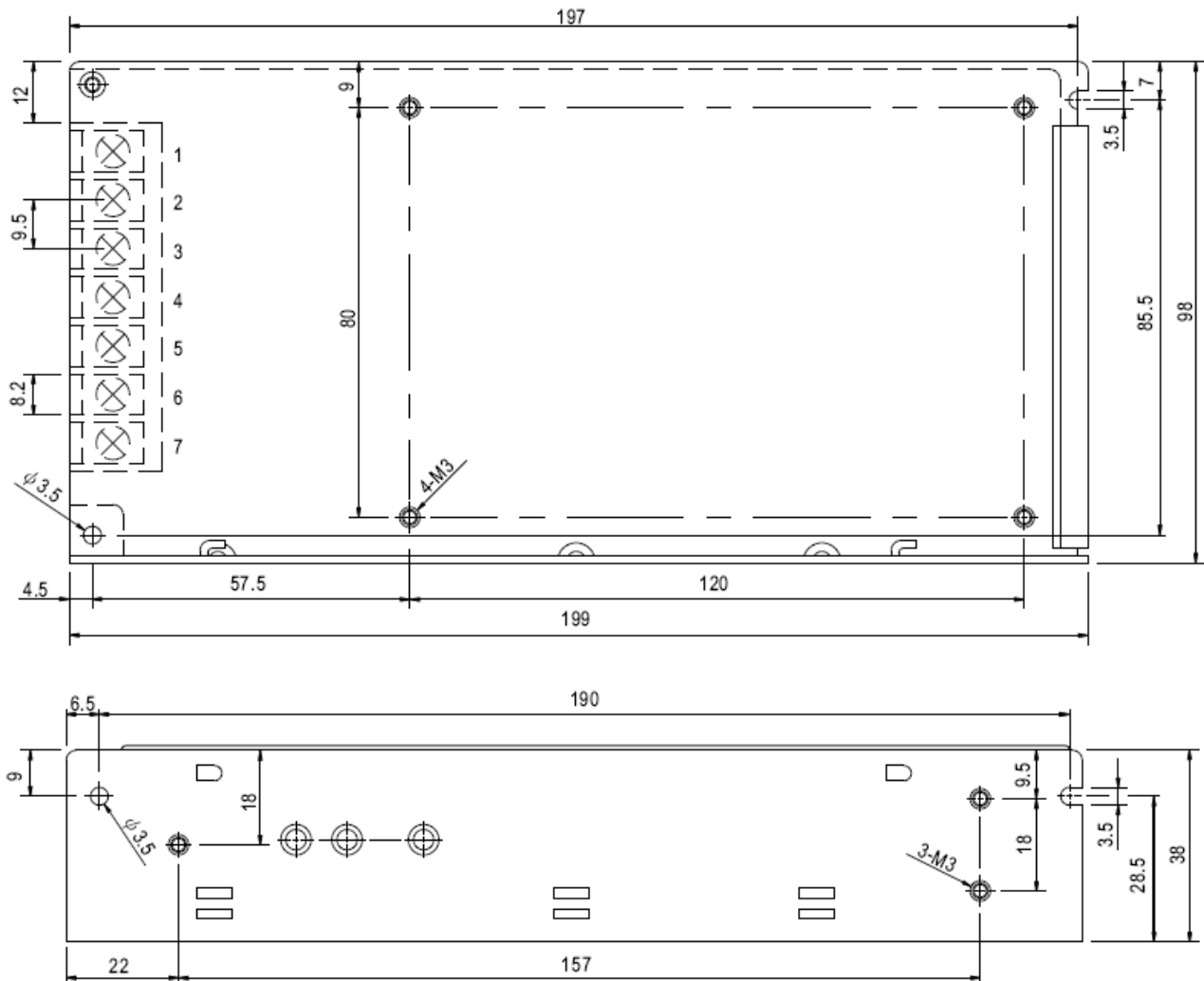
Models and Ratings

Model	Input Voltage	Output Volts / Amps	Output Adjustment	Ripple & Noise	Efficiency
SD-100B-5	19~36 VDC	5 V / 20 A	4.5~5.5 V	100 mV	74%
SD-100B-12	19~36 VDC	12 V / 8.5 A	11~16 V	120 mV	75%
SD-100B-24	19~36 VDC	24 V / 4.2 A	23~30 V	150 mV	78%
SD-100C-5	36~72 VDC	5 V / 20 A	4.5~5.5 V	100 mV	75%
SD-100C-12	36~72 VDC	12 V / 8.5 A	11~16 V	120 mV	77%
SD-100C-24	36~72 VDC	24 V / 4.2 A	23~30 V	150 mV	81%
SD-100D-5	72~144 VDC	5 V / 20 A	4.5~5.5 V	100 mV	76%
SD-100D-12	72~144 VDC	12 V / 8.5 A	11~16 V	120 mV	80%
SD-100D-24	72~144 VDC	24 V / 4.2 A	23~30 V	150 mV	83%

Note : SD-100D units will also accept an AC Input of 85 to 132 Volts.

For mechanical details and connections see next page

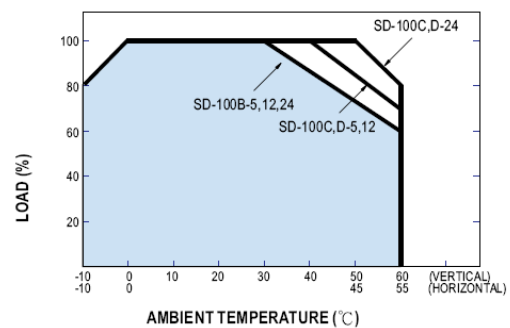
Mechanical Details



Connections

Terminal	Function
1	+V Input
2	-V Input
3	Input Earth
4	-V Output
5	-V Output
6	+V Output
7	+V Output

Temperature Derating



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

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