

## 350 Watt, SD Series, Fully Enclosed DC-DC Converter

**ALL PSU LTD**  
Electronic Power Solutions

- DC Inputs From 19 to 144 V
- Isolated Output
- Low Ripple, Built in Filter
- Protections, Short Circuit, Over Load, Over Voltage, Over Temperature.
- High Reliability
- 2 Year Warranty
- Conformal Coating Option
- DIN Rail Mounting Option



### Specification

Input Voltage Ranges.....	19~36, 36~72, 72~144 VDC,
Output Voltage.....	See table below, plus adjustment range
Line Regulation.....	+/-0.5% (5V O/P), +/-0.3% (12V O/P), 0.2% (24V O/P), 0.2% (48V O/P)
Load Regulation.....	+/-1% (max)
Over Load Protection.....	105~135% (AC recycle to re-start)
Over Voltage Protection.....	110~167% of nominal output voltage
Isolation Voltage.....	1.5 kVAC (input to output)
Operating Temperature.....	-20 to +60 °C (see derating curve)
Safety Standards.....	IEC60950-1, CB approved by TUV (for D type)
EMC Standards.....	EN55022 class B, EN61000-4-2,3,4,6,8 ENV50204, light industry level, criteria A
Dimensions.....	215(L) x 115(W) x 50(H) mm
MTBF.....	209.4 k hrs (MIL-HDBK-217F) @ 25 °C
Weight.....	1.1 kg

### Models and Ratings

Model	Input Voltage	Output Volts / Amps	Output Adjustment	Ripple & Noise	Efficiency
SD-350B-5	19~36 VDC	5.0 V / 57 A	4.5~5.5 V	100 mV	74%
SD-350B-12	19~36 VDC	12.0 V / 27.5 A	11.0~16.0 V	120 mV	80%
SD-350B-24	19~36 VDC	24.0 V / 14.6 A	23.0~30.0 V	150 mV	80%
SD-350B-48	19~36 VDC	48.0 V / 7.3 A	43.0~53.0 V	200 mV	84%
SD-350C-5	36~72 VDC	5.0 V / 60 A	4.5~5.5 V	100 mV	76%
SD-350C-12	36~72 VDC	12.0 V / 27.5 A	11.0~16.0 V	120 mV	81%
SD-350C-24	36~72 VDC	24.0 V / 14.6 A	23.0~30.0 V	150 mV	81%
SD-350C-48	36~72 VDC	48.0 V / 7.3 A	43.0~53.0 V	200 mV	82%
SD-350D-5	72~144 VDC	5.0 V / 60 A	4.5~5.5 V	100 mV	78%
SD-350D-12	72~144 VDC	12.0 V / 29.2 A	11.0~16.0 V	120 mV	83%
SD-350D-24	72~144 VDC	24.0 V / 14.6 A	23.0~30.0 V	150 mV	87%
SD-350D-48	72~144 VDC	48.0 V / 7.3 A	43.0~53.0 V	200 mV	89%

For mechanical & connection details, see next page

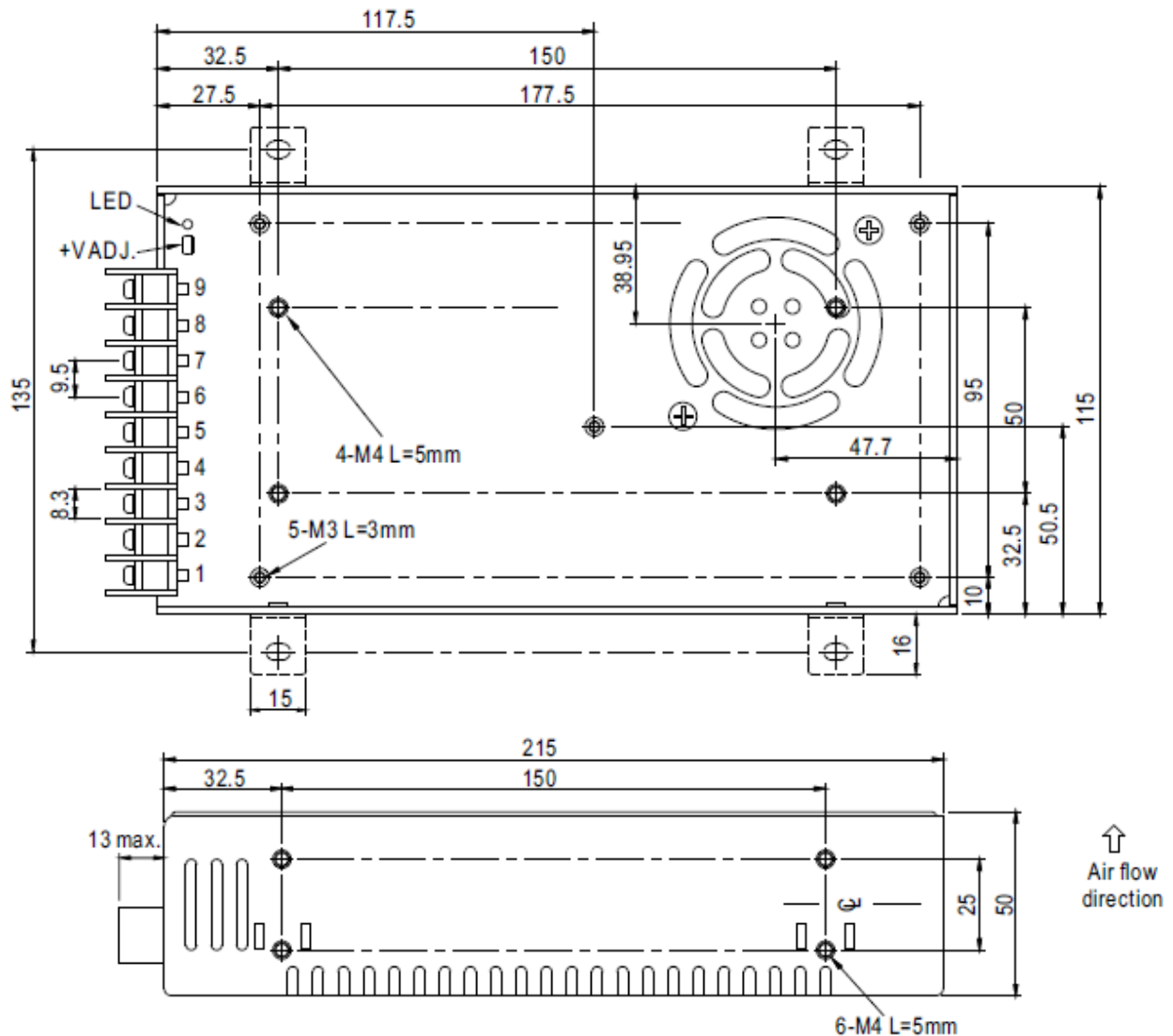
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## Mechanical Details

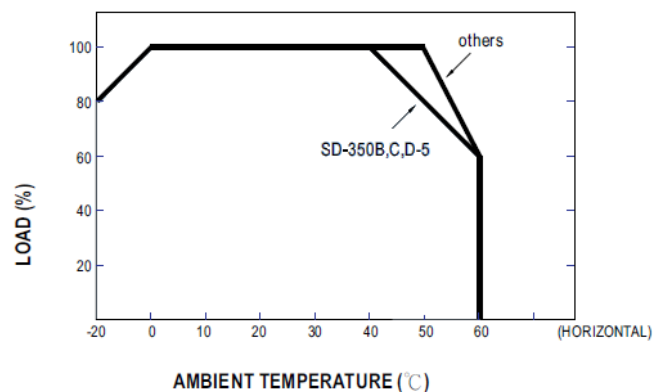
(Drawing below is shown with optional 4 x MHS-012 side mounting brackets fitted (dotted outline))



## Connection Details

Terminal	Function
1	+ DC In
2	- DC In
3	Input Earth
4	- DC Out
5	- DC Out
6	- DC Out
7	+ DC Out
8	+ DC Out
9	+ DC Out

## Temperature Derating



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

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