

3-4 Watt, SB03 Series, DC-DC Converter (Single & Dual Output)

ALL PSU LTD
Electronic Power Solutions

- Ultra Wide 4:1 Input Range
- 3 to 4 Watts Depending On Model
- 1600V Isolation
- 24 Pin Dual-in-Line Style
- Encapsulated Metal Case
- Competitive Prices
- High Efficiency up to 80%
- -25 to +70 °C Operational Temperature Range



Specification (typical values shown)

Input Ranges.....	9~36 Volts and 18~75 Volts
Outputs.....	Single or dual outputs available (see table below)
Line Regulation.....	+/-0.5%
Load Regulation.....	+/-1% (3.3V output models are +/-3%)
Output Ripple.....	<0.2% of Vout
Output Noise.....	<0.5% of Vout
Efficiency.....	See table for each model
Short Circuit Protection.....	Current limit, auto-recovery
Isolation Voltage.....	1600 VDC
Operating Temperature.....	-25 to +70 °C @ full load, Derates to 100°C
Storage Temperature.....	-55 to +105 °C
Case Material.....	5 sided shielded Aluminium, non conductive base
Switching Frequency.....	300 kHz typical
MTBF.....	>800,000 hrs @ 25°C (MIL-HDBK-217F)
Warranty.....	2 Years

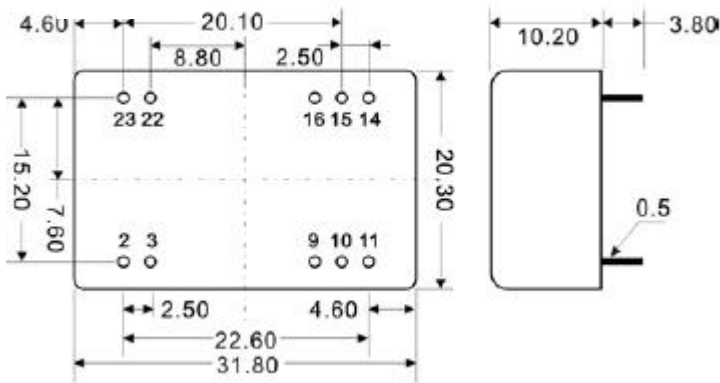
Models and Ratings

Model (9~36V input)	Model (18-75V input)	Output (VDC)	Output Current	Efficiency
Single Output Models				
SB03-24-3.3S	SB03-48-3.3S	3.3 V	900 mA	70% / 71%
SB03-24-5S	SB03-48-5S	5.0 V	660 mA	71% / 73%
SB03-24-12S	SB03-48-12S	12 V	330 mA	80%
SB03-24-15S	SB03-48-15S	15 V	267 mA	77% / 79%
SB03-24-24S	SB03-48-24S	24 V	166 mA	78%
Dual Output Models				
SB03-24-5D	SB03-48-5D	+/-5 V	+/-300 mA	73% / 75%
SB03-24-12D	SB03-48-12D	+/-12 V	+/-166 mA	77% / 79%
SB03-24-15D	SB03-48-15D	+/-15 V	+/-133 mA	75% / 78%

For mechanical data and pinout, please see next page

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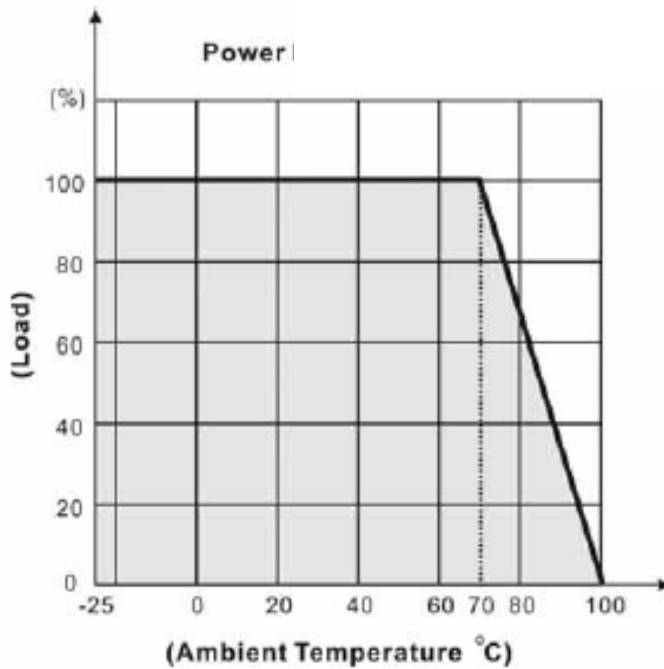
**Mechanical Details and Pin-Out
Top View**



Pin	Function	
	Single O/P	Dual O/P
2	-V in	-V in
3	-V in	-V in
9	N/C	Common
10	N/C	N/C
11	N/C	-V out
14	+V out	+V out
15	N/C	N/C
16	-V out	Common
22	+V in	+V in
23	+V in	+V in

N/C = Pin with no connection

Derating Curve



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

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