

- Wide 2:1 & Extra Wide 4:1 Input Ranges
- 6.6 to 8 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, 2:1 Option.....	9~18 Volts, 18~36 and 36~75 Volts
4:1 Option.....	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
Minimum Load.....	<5% required to maintain regulation
Efficiency.....	See table for each model
Short Circuit Protection.....	Current limit, auto-recovery
Isolation Voltage.....	1600 VDC
Operating Temperature.....	-25 to +50 °C @ full load, Derates to 70°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, (2:1 Input options)

Model (9~18V Input)	Model (18~36V input)	Model (36~75V input)	Output (VDC)	Output Current	Efficiency
Single Output Models					
SB08-12-3.3S	SB08-24-3.3S	SB08-48-3.3S	3.3 V	2000 mA	67,72,73%
SB08-12-5S	SB08-24-5S	SB08-48-5S	5.0 V	1500 mA	69,73,74%
SB08-12-12S	SB08-24-12S	SB08-48-12S	12 V	666 mA	76,80,80%
SB08-12-15S	SB08-24-15S	SB08-48-15S	15 V	533 mA	75,80,80%
SB08-12-24S	SB08-24-24S	SB08-48-24S	24 V	333 mA	68,77,79%
Dual Output Models					
SB08-12-5D	SB08-24-5D	SB08-48-5D	+/-5 V	+/-800 mA	70,73,73%
SB08-12-12D	SB08-24-12D	SB08-48-12D	+/-12 V	+/-333 mA	75,78,77%
SB08-12-15D	SB08-24-15D	SB08-48-15D	+/-15 V	+/-267 mA	74,74,74%

Please see next page for extra wide 4:1 Input Models.

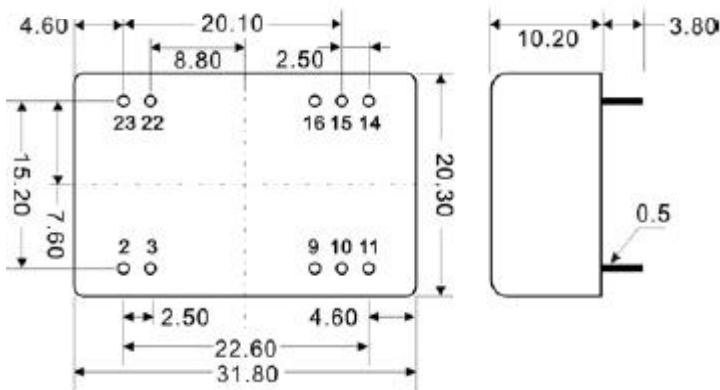
For mechanical drawing pinout and temperature derating, please see next page

**ALL PSU Ltd, Unit D6 Laser Quay, Culpeper Close, Medway City Estate,  
Rochester, Kent, ME24HU, Tel : 01634 725527, Fax : 01634 739111,  
Email : sales@allpsu.co.uk , Web : www.allpsu.co.uk**

## Models and Ratings (4:1 Input Options)

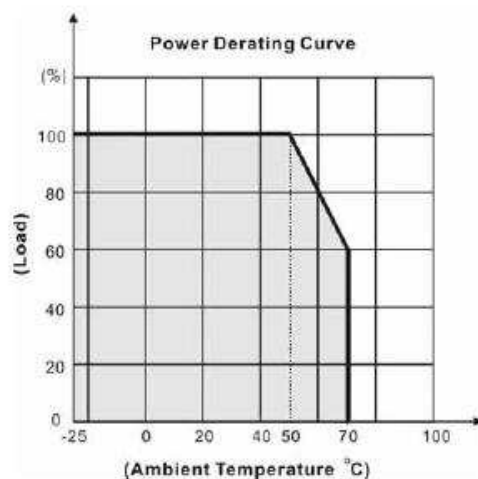
Model (9~36V Input)	Model (36~75V Input)	Output (VDC)	Output Current	Efficiency
Single Output Models				
SB08-24F-3.3S	SB08-48F-3.3S	3.3 V	2000 mA	70%
SB08-24F-5S	SB08-48F-5S	5 V	1500 mA	66%, 73%
SB08-24F-12S	SB08-48F-12S	12 V	666 mA	72%, 78%
SB08-24F-15S	SB08-48F-15S	15 V	533 mA	71%, 78%
SB08-24F-24S	SB08-48F-24S	24 V	333 mA	73%
Dual Output Models				
SB08-24F-5D	SB08-48F-5D	+/-5 V	+/-800 mA	72%, 74%
SB08-24F-12D	SB08-48F-12D	+/-12 V	+/-333 mA	76%, 77%
SB08-24F-15D	SB08-48F-15D	+/-15 V	+/-267 mA	74%

## 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	NC	Common
10	NC	NC
11	NC	-V Out
14	+V Out	+V Out
15	NC	NC
16	-V Out	Common
22	+V In	+V In
23	+V In	+V In

NC = Pin with no connection



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

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