

KEY FEATURES

- Power Module for PCB Mountable
- 2:1 & 4:1 Wide Input Range
- Regulated Output
- Low Ripple and Noise
- 2-Years Product Warranty



ELECTRICAL SPECIFICATIONS

Model No. (Single Output)	SB08-12-3.3S	SB08-12-5S	SB08-12-12S	SB08-12-15S	SB08-12-24S
Input Voltage (V.DC.)	12V (9-18V)	12V (9-18V)	12V (9-18V)	12V (9-18V)	12V (9-18V)
Output Voltage (V.DC.)	3.3V/2000mA	5V/1500mA	12V/666mA	15V/533mA	24V/333mA
Efficiency	67%	69%	76%	75%	68%
Minimum Load	4%	3%	5%	5%	4%

Model No. (Single Output)	SB08-24-3.3S	SB08-24-5S	SB08-24-12S	SB08-24-15S	SB08-24-24S
Input Voltage (V.DC.)	24V (18-36V)	24V (18-36V)	24V (18-36V)	24V (18-36V)	24V (18-36V)
Output Voltage (V.DC.)	3.3V/2000mA	5V/1500mA	12V/666mA	15V/533mA	24V/333mA
Efficiency	72%	73%	80%	80%	77%
Minimum Load	3%	3%	4%	4%	4%

Model No. (Single Output)	SB08-24F-3.3S	SB08-24F-5S	SB08-24F-12S	SB08-24F-15S	SB08-24F-24S
Input Voltage (V.DC.)	24V (9-36V)	24V (9-36V)	24V (9-36V)	24V (9-36V)	24V (9-36V)
Output Voltage (V.DC.)	3.3V/2000mA	5V/1500mA	12V/666mA	15V/533mA	24V/333mA
Efficiency	70%	66%	72%	71%	73%
Minimum Load		4%	5%	5%	

Model No. (Single Output)	SB08-48-3.3S	SB08-48-5S	SB08-48-12S	SB08-48-15S	SB08-48-24S
Input Voltage (V.DC.)	48V (36-75V)	48V (36-75V)	48V (36-75V)	48V (36-75V)	48V (36-75V)
Output Voltage (V.DC.)	3.3V/2000mA	5V/1500mA	12V/666mA	15V/533mA	24V/333mA
Efficiency	73%	74%	80%	80%	79%
Minimum Load	3%	3%	4%	4%	4%

Model No. (Single Output)	SB08-48F-3.3S	SB08-48F-5S	SB08-48F-12S	SB08-48F-15S	SB08-48F-24S
Input Voltage (V.DC.)	48V (18-75V)	48V (18-75V)	48V (18-75V)	48V (18-75V)	48V (18-75V)
Output Voltage (V.DC.)	3.3V/2000mA	5V/1500mA	12V/666mA	15V/533mA	24V/333mA
Efficiency	70%	73%	78%	78%	73%

Model No. (Dual Output)	SB08-12-5D	SB08-12-12D	SB08-12-15D
Input Voltage (V.DC.)	12V (9-18V)	12V (9-18V)	12V (9-18V)
Output Voltage (V.DC.)	±5V / ±800mA	±12 / ±333mA	±15 / ±267mA
Efficiency	70%	75%	74%
Minimum Load	4%	5%	5%

Model No. (Dual Output)	SB08-24-5D	SB08-24-12D	SB08-24-15D
Input Voltage (V.DC.)	24V (18-36V)	24V (18-36V)	24V (18-36V)
Output Voltage (V.DC.)	±5V / ±800mA	±12 / ±333mA	±15 / ±267mA
Efficiency	73%	78%	74%
Minimum Load	2%	5%	6%

Model No. (Dual Output)	SB08-24F-5D	SB08-24F-12D	SB08-24F-15D
Input Voltage (V.DC.)	24V (9-36V)	24V (9-36V)	24V (9-36V)
Output Voltage (V.DC.)	±5V / ±800mA	±12 / ±333mA	±15 / ±267mA
Efficiency	72%	76%	74%

Model No. (Dual Output)	SB08-48-5D	SB08-48-12D	SB08-48-15D
Input Voltage (V.DC.)	48V (36-75V)	48V (36-75V)	48V (36-75V)
Output Voltage (V.DC.)	±5V / ±800mA	±12 / ±333mA	±15 / ±267mA
Efficiency	73%	77%	74%
Minimum Load	4%	5%	3%

Model No. (Dual Output)	SB08-48F-5D	SB08-48F-12D	SB08-48F-15D
Input Voltage (V.DC.)	48V (18-75V)	48V (18-75V)	48V (18-75V)
Output Voltage (V.DC.)	±5V / ±800mA	±12 / ±333mA	±15 / ±267mA
Efficiency	74%	77%	74%

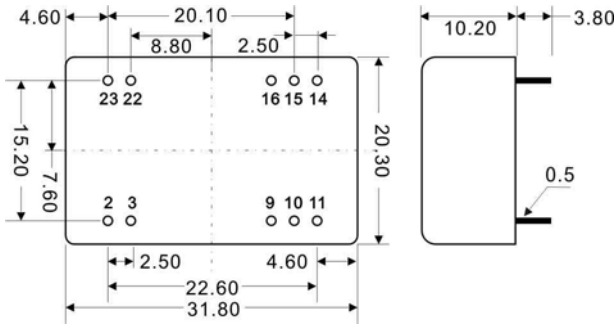
Model No. (Single Output)	SB08-12-3.3S SB08-24--3.3S SB08-24F-3.3S SB08-48-3.3S SB08-48F-3.3S	SB08-12-5S SB08-24--5S SB08-24F-5S SB08-48-5S SB08-48F-5S	SB08-12-12S SB08-24--12S SB08-24F-12S SB08-48-12S SB08-48F-12S	SB08-12-15S SB08-24--15S SB08-24F-15S SB08-48-15S SB08-48F-15S	SB08-12-24S SB08-24--24S SB08-24F-24S SB08-48-24S SB08-48F-24S
Max Output Wattage (W)	6.6W	7.5W	8W	8W	8W
Input	Input Filter L-C type				
Output	Voltage (V.DC.) 3.3 5 12 15 24				
	Voltage Accuracy ±2%				
	Current (mA) max 2000 1500 666 533 333				
	Line Regulation (LL-HL) (typ.) ±0.5%				
	Load Regulation (10-100%) (typ.) ±3% ±1% ±1% ±1% ±1%				
	Ripple <0.2% Vout +20mV max (Vp-p)				
	Noise <0.5% Vout +50mV max (Vp-p)				
Protection	Switching Frequency 300KHz				
	Over Power Protection Works over 120% of rating and recovers automatically.				
Isolation	Short Circuit Protection Current limit, auto-recovery				
	Voltage 1600 VDC.				
	Resistance 10 ⁸ ohms				
Environment	Capacitance 1000 pF				
	Operating Temperature -40°C...+80°C (with derating)				
	Storage Temperature -55°C...+105°C				
	Case Temperature +100°C max.				
	Temperature Coefficient ±0.02% Per°C				
	Humidity 95% RH				
Physical	MTBF >800,000 h @ 25°C (MIL-HDBK-217F)				
	Dimension (L x W x H) 1.25 x 0.8 x 0.4 Inches (31.8 x 20.3 x 10.2 mm) Tolerance ±0.5 mm				
	Case Material Six-side shielded Aluminum with Non-Conductive base, Black Anodize				
	Weight 13 g				
Cooling Method Free-air convection					

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Model No. (Dual Output)	SB08-12-5D SB08-24--5D SB08-24F-5D SB08-48-5D SB08-48F-5D	SB08-12-12D SB08-24--12D SB08-24F-12D SB08-48-12D SB08-48F-12D	SB08-12-15D SB08-24--15D SB08-24F-15D SB08-48-15D SB08-48F-15D
Max Output Wattage (W)	8W	8W	8W
Input	Input Filter L-C type		
Output	Voltage (V.DC.) ±5 ±12 ±15		
	Voltage Accuracy ±2%		
	Current (mA) max ±800 ±333 ±267		
	Line Regulation (LL-HL) (typ.) ±0.5%		
	Load Regulation (10-100%) (typ.) ±1% ±1% ±1%		
	Ripple <0.2% Vout +20mV max (Vp-p)		
	Noise <0.5% Vout +50mV max (Vp-p)		
Protection	Switching Frequency 300KHz		
	Over Power Protection Works over 120% of rating and recovers automatically.		
Isolation	Short Circuit Protection Current limit, auto-recovery		
	Voltage 1600 VDC.		
	Resistance 10 ⁸ ohms		
Environment	Capacitance 1000 pF		
	Operating Temperature -25°C...+70°C (with derating)		
	Storage Temperature -55°C...+105°C		
	Case Temperature +100°C max.		
	Temperature Coefficient ±0.02% Per°C		
	Humidity 95% RH		
Physical	MTBF >800,000 h @ 25°C (MIL-HDBK-217F)		
	Dimension (L x W x H) 1.25 x 0.8 x 0.4 Inches (31.8 x 20.3 x 10.2 mm) Tolerance ±0.5 mm		
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	Weight 13 g		
Cooling Method Free-air convection			

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

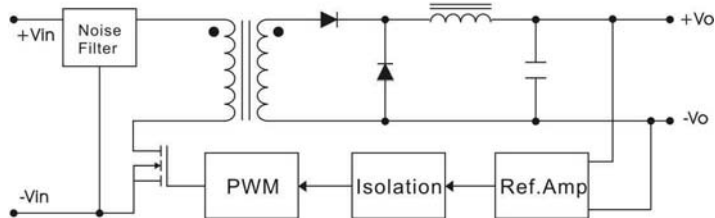
MECHANICAL DIMENSION (Top View)



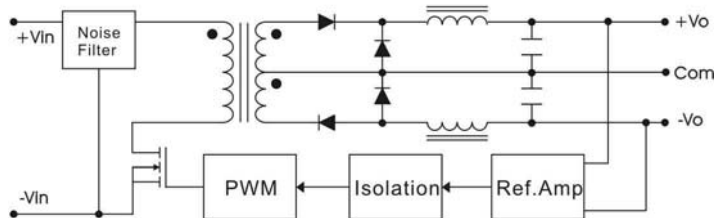
PIN#	Single	Dual
2	-VIN	-VIN
3	-VIN	-VIN
9	NC	COMMON
10	NC	NC
11	NC	-VOUT
14	+VOUT	+VOUT
15	NC	NC
16	-VOUT	COMMON
22	+VIN	+VIN
23	+VIN	+VIN

BLOCK DIAGRAM

Single Output



Dual Output



DERATING

