



DC → DC POWER MODULE

B SERIES

B Series BxxxxS-xW 1KVDC Isolation 0.1W~2W Unregulated single output SIP4 PIN

Input Volt.

5, 9, 12, 15, 24 VDC

Output Volt.

3.3, 5, 9, 12, 15, 24 VDC

Other specifications required, please inquire us for details.



Technical Parameters

All the parameters below are tested at TA=25° C, nominal input voltage, rated output current.

Input Parameters

Volt. Range

+/- 10 %

Filter

Ceramic-capacitor

Isolation Parameters

Rated Isolation Volt.

1000 VDC

Leak current

<1 m A

Resistance

10⁹ Ohm

Capacitor

60 pF TYP.

Output Parameters

Volt. Precision

+/- 5 %, max.

(20 MHz BW) Ripple&Noise

150mV p-p, max.

Continuous short-circuit time

Immediately (<1s)

Linear volt. Calibration

+/- 1,2 % / 1,0 % of Vin

Load volt. Calibration

+/- 8 %, load = 20 ~ 100 %

Temperature index

+/- 0,02 % / °C

General Parameters

Efficiency

55% to 85 %

Switching Frequency

60~125 KHz, type.

Environmental Parameters

Operating Temp. (environmental)

- 40° C to + 85° C

Storage Temp.

- 55 °C to + 125 °C

Reducing rated value

See temperature derating graph below

Humidity

≤ 90 %, Non-compression

Cooling method

Natural Free-air

Dimension

SIP Package size

1W : 11.68 x6.0 x10.16 mm 2W : 11.68 x7.0 x10.16 mm
0.46 x 0.24 x 0.40 inch 0.46 x 0.28 x 0.40 inch

Weight

2.5 g~3.5 g

External Package Material

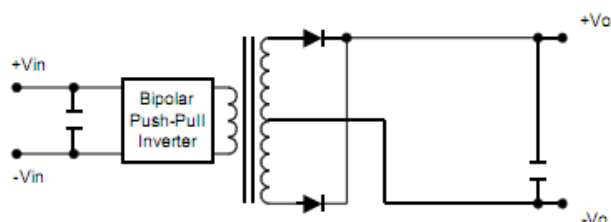
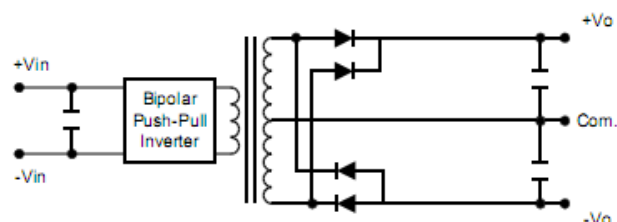
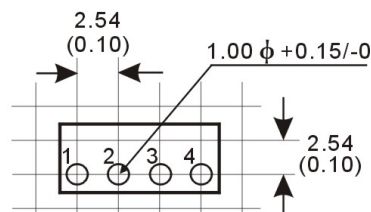
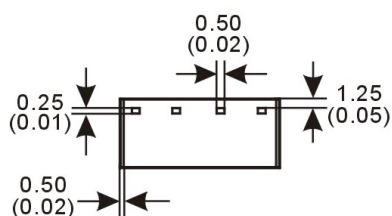
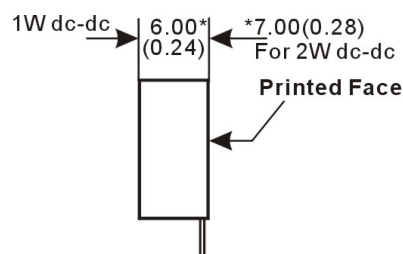
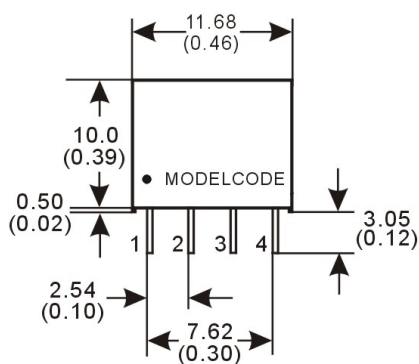
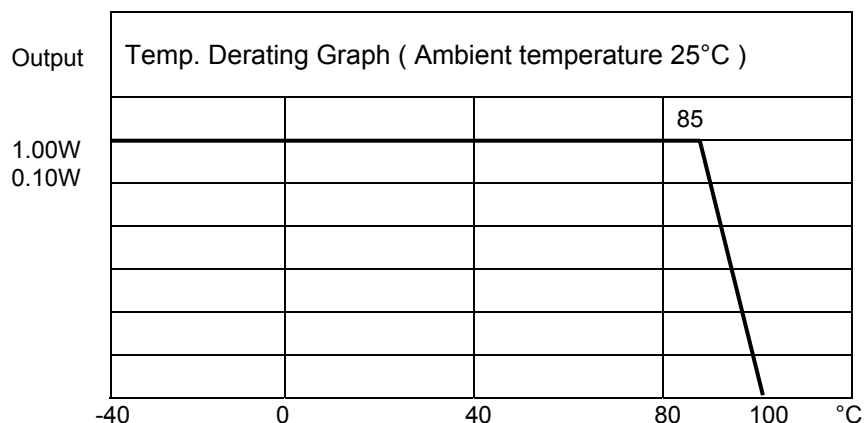
Non-conductive flame-retardant black plastics

Typical Product List: (The parameters below are collected at 8 hours full-load aging test.)

Model No.	Input Volt. Vin(VDC)	Input Current Empty load (mA)	Input Current Full load (mA)	Output Volt. Vout(VDC)	Output Current (max.mA)	Efficiency Full load (%TYPE)
B0503S-W1	5	5	34	3.3	30	59
B0505S-W1	5	4	33	5	20	60
B0512S-W1	5	8	32	12	8	60
B1205S-W1	12	5	14	5	20	61
B1212S-W1	12	5	14	12	8	60
B2405S-W1	24	5	7	5	20	60
B2412S-W1	24	5	7	12	8	61
B0505S-W25	5	7	81	5	50	62

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Model No.	Input Volt. Vin(VDC)	Input Current Empty load (mA)	Input Current Full load (mA)	Output Volt. Vout(VDC)	Output Current (max.mA)	Efficiency Full load (%TYPE)
B1205S-W25	12	6	34	5	50	62
B1212S-W25	12	5	35	12	21	61
B1215S-W25	12	7	32	15	17	62
B2405S-W25	24	5	17	5	50	62
B2412S-W25	24	4	16	12	21	63
B2415S-W25	24	4	15	15	17	65
B0503S-W5	5	16	167	3.3	150	60
B0505S-W5	5	12	159	5	100	63
B0512S-W5	5	18	154	12	42	65
B1205S-W5	12	11	67	5	100	62
B1212S-W5	12	10	66	12	42	63
B1215S-W5	12	10	63	15	34	66
B2405S-W5	24	6	33	5	100	63
B2412S-W5	24	7	32	12	42	65
B2415S-W5	24	8	27	15	34	66
B0503S-W75	5	22	246	3.3	227	61
B0505S-W75	5	22	238	5	150	63
B0512S-W75	5	14	242	12	63	62
B0515S-W75	5	14	238	15	50	63
B1205S-W75	12	15	100	5	150	62
B1212S-W75	12	12	97	12	63	64
B1215S-W75	12	10	96	15	50	65
B1512S-W75	15	7	79	12	63	63
B0503S-1W	5	28	363	3.3	303	72
B0305S-1W	3.3	38	420	5	200	72
B0505S-1W	5	27	276	5	200	72
B0512S-1W	5	27	254	12	84	70
B1205S-1W	12	13	119	5	200	70
B1212S-1W	12	12	104	12	84	80
B2405S-1W	24	8	55	5	200	75
B2412S-1W	24	7	54	12	84	77
B2415S-1W	24	7	55	15	76	76
B0503S-2W	5	60	571	3.3	606	70
B0505S-2W	5	42	513	5	400	78
B0512S-2W	5	26	500	12	167	80
B1205S-2W	12	22	222	5	400	75
B1212S-2W	12	20	208	12	167	80
B1215S-2W	12	18	214	15	133	78
B2405S-2W	24	8	111	5	400	75
B2412S-2W	24	8	101	12	167	82
B2415S-2W	24	8	98	15	133	85

**Functional Block Diagram:****Single Output****Dual Output****External Dimension & PCB Installation:****SIP 4Pin PCB Size****Temperature Derating Graph and PIN Definition**

Pin		Function	
1	-	Vin	Input -
2	+	Vin	Input +
3	-	Vout	Output -
4	+	Vout	Output +

* Note: the product design and specification are subject to change without notice.