DC → DC POWER MODULE

B SERIES

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

ISO9001:2008

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.

ETHES.IN

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 = $20 \sim 100$ %

Temperature index +/- 0,02 % / °C

General Parameters

Dimension

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

Colling method Natural Free-air

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

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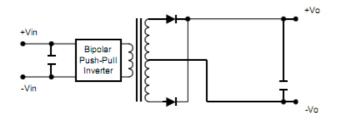
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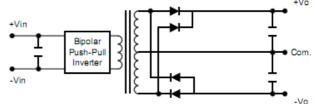
B Series BxxxxS-xW 1KVDC Isolation 0.1W~2W Unregulated single output SIP4 PIN

Functional Block Diagram:

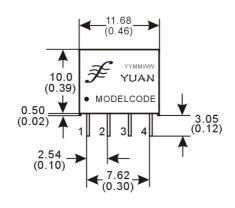
Single Output

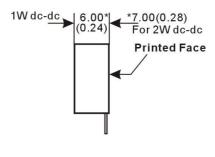
Dual Output

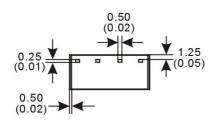


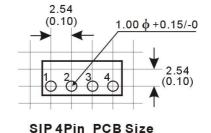


External Dimension & PCB Installation:

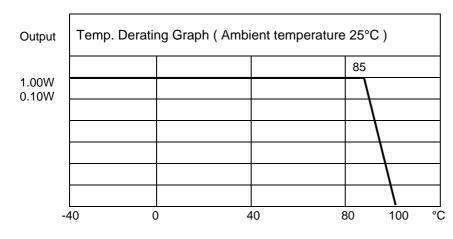








Temperature Derating Graph and PIN Definition



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

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