



DC → DC POWER MODULE

A SERIES

A Series AxxxxS-xW 1KVDC Isolation 1W~2W Unregulated dual output SIP7 PIN

Input Volt.

5, 12, 15, 24 VDC

Output Volt.

(+/-) 3.3, 5, 9, 12, 15, 18 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

70% to 85 %

Switching Frequency

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

Dimension

SIP Package size

1W : 19.6 x6.0 x10.0 mm

2W : 19.6 x7.0 x10.0 mm

0.77 x 0.24 x 0.39 inch

0.77 x 0.28 x 0.39 inch

2.0 g~3.0 g

Weight

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)
A0505S-1W	5	28	282	+/-5	+/-100	71
A0509S-1W	5	23	256	+/-9	+/-55	78
A0515S-1W	5	20	250	+/-15	+/-34	78
A1205S-1W	12	16	113	+/-5	+/-100	74
A1212S-1W	12	12	105	+/-12	+/-42	79
A2403S-1W	24	11	56	+/-3.3	+/-150	75
A2405S-1W	24	9	54	+/-5	+/-100	77
A2412S-1W	24	8	53	+/-12	+/-42	79



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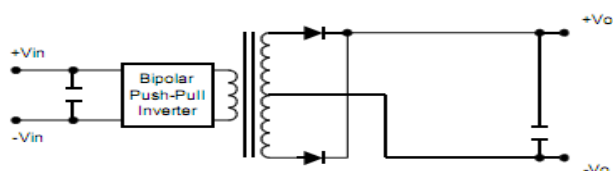
A SERIES

A Series AxxxxS-xW 1KVDC Isolation 1W~2W Unregulated dual output SIP7 PIN

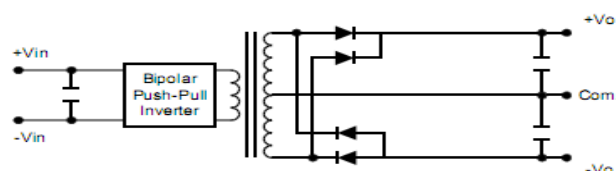
Model No.	Input Volt. Vin(VDC)	Input Current Empty load (mA)	Input Current Full load (mA)	Output Volt. Vout(VDC)	Output Current (max.mA)	Efficiency Full load (%TYPE)
A0505S-2W	5	40	555	+/-5	+/- 200	72
A1205S-2W	12	22	225	+/-5	+/- 200	74
A1212S-2W	12	20	211	+/-12	+/- 84	79
A1215S-2W	12	20	208	+/-15	+/- 67	80
A2405S-2W	24	11	111	+/-5	+/-200	75
A2412S-2W	24	9	105	+/-12	+/- 84	79
A2415S-2W	24	8	103	+/-15	+/-67	79

Functional Block Diagram:

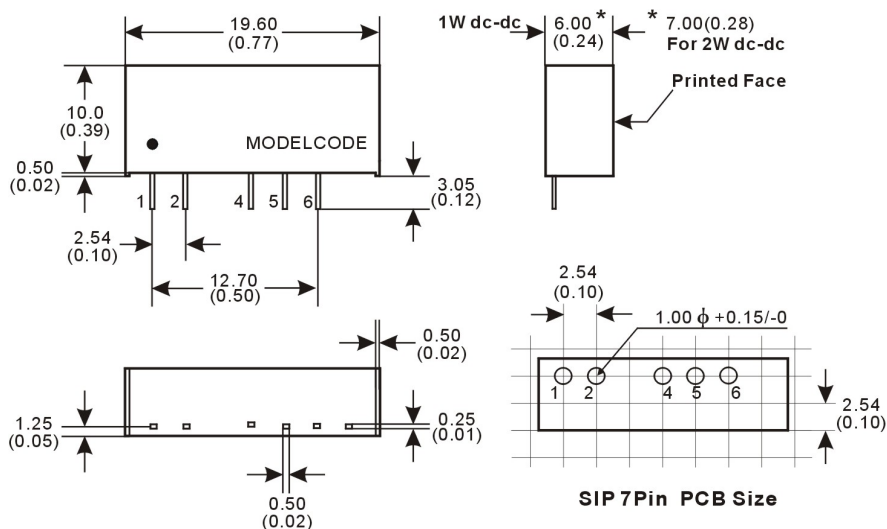
Single Output



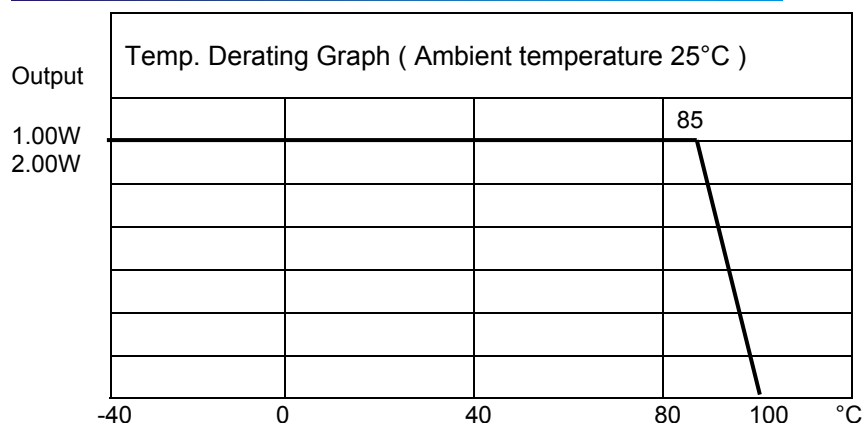
Dual Output



External Dimension & PCB Installation:



Temperature Derating Graph and PIN Definition



Pin	Function
1	+ Vin Input +
2	- Vin Input -
3	
4	- Vout Output -
5	0 0V Common
6	+ Vout Output +
7	

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