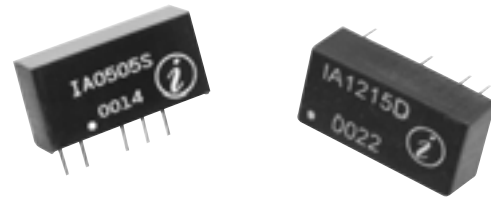


## International Power Sources, Inc.

260 Hopping Brook Road  
Holliston, Massachusetts 01746  
Tel. (508) 429-4440 Fax (800) 226-2100  
<http://www.intlpower.com>

## DC/DC Converters



### IA SERIES 1 WATT

SHOWN  
ACTUAL  
SIZE

### FEATURES

- 0.18 in<sup>2</sup> board space
- 80% Efficiency
- 15 Watts per in<sup>3</sup>
- 5, 12, and 24 VDC Inputs
- 1000 VDC Isolation
- Industry Standard Pinouts

### MODELS CHART

OUTPUT VOLTAGE(S)	OUTPUT CURRENT(S)	PART NUMBERS		
		5VDC INPUT	12VDC INPUT	24VDC INPUT
±3.3VDC	±150mA	IA0503	IA1203	IA2403
±5VDC	±100mA	IA0505	IA1205	IA2405
±12VDC	±42mA	IA0512	IA1212	IA2412
±15VDC	±33mA	IA0515	IA1215	IA2415

Add suffix "S" for single-in-line package, suffix "D" for dual-in-line package.

### ELECTRICAL SPECIFICATIONS

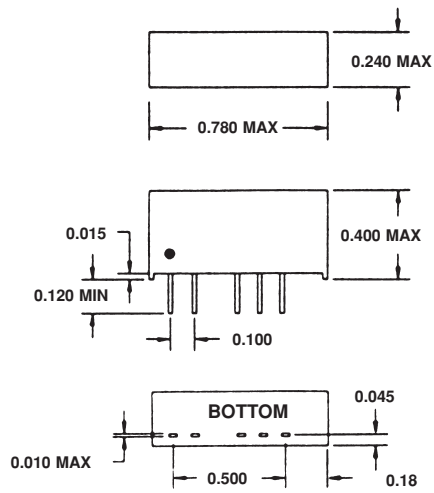
All specifications typical at nominal line, full load and 25°C

Input voltage range	±10%
Input reflected noise (20MHz BW)	100mV p-p max.
Output voltage accuracy	±5%
Line regulation	1.2%/1% of Vin
Load regulation (20% to 100% Load)	±10%
Output ripple and noise (20 MHz BW)	75mV p-p max.
Efficiency at full load 12V and 15V outputs	80% typical
Efficiency at full load 3.3V and 5V outputs	70% typical
Short circuit protection	1 second max.
Input output isolation	1000VDC min.
Temperature coefficient	0.03% per °C max
Operating temperature range	-40°C to 85°C
	-40°C to 71°C (no derating)
Storage temperature range	-55°C to 125°C

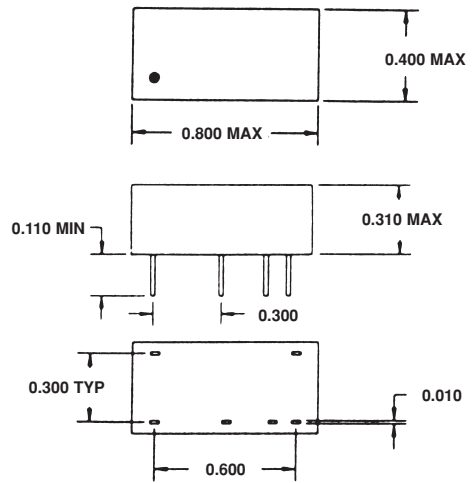
Specifications subject to change. Unit requires 10mm of air space.

## MECHANICAL SPECIFICATIONS

### SINGLE-IN-LINE PACKAGE



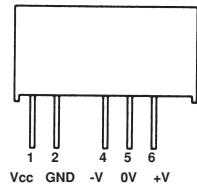
### DUAL-IN-LINE PACKAGE



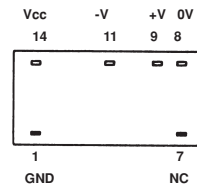
Pins .01 x .02 inches

## PIN CONNECTIONS

### SINGLE-IN-LINE PACKAGE



### DUAL-IN-LINE PACKAGE (TOP VIEW)



## DERATING CURVE

