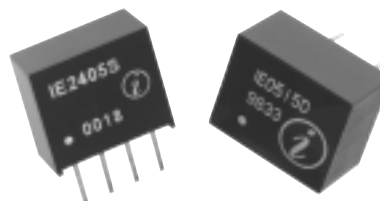


International Power Sources, Inc.

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Tel. (508) 429-4440 Fax (800) 226-2100
<http://www.intlpower.com>

DC/DC Converters



IE SERIES 1 WATT

SHOWN
ACTUAL
SIZE

FEATURES

- 0.12 in² board space
- 80% Efficiency
- 22 Watts per in³
- 3.3, 5, 12, 24 and 48 VDC Inputs
- 1000/3000 VDC Isolation
- Industry Standard Pinouts

MODELS CHART

OUTPUT VOLTAGE(S)	OUTPUT CURRENT(S)	PART NUMBERS				
		3.3VDC INPUT*	5VDC INPUT	12VDC INPUT	24VDC INPUT	48VDC INPUT
3.3VDC	300mA	IE0303	IE0503	IE1203	IE2403	IE4803
5VDC	200mA	IE0305	IE0505	IE1205	IE2405	IE4805
9VDC	111mA	IE0309	IE0509	IE1209	IE2409	IE4809
12VDC	84mA	IE0312	IE0512	IE1212	IE2412	IE4812
15VDC	66mA	IE0315	IE0515	IE1215	IE2415	IE4815

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

Add suffix "H" for 3000 VDC isolation.

* Derate output by 50% for 3.3VDC input models.

ELECTRICAL SPECIFICATIONS

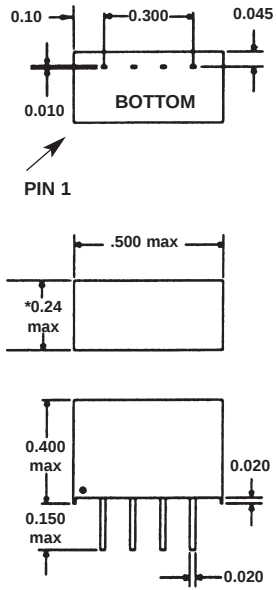
All specifications typical at nominal line, full load and 25°C

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)	100mV p-p max.
Efficiency at full load 9V, 12V and 15V outputs	80% typical
Efficiency at full load 3.3V, 5V outputs	70% typical
Short circuit protection	1 second max.
Input output isolation	1000VDC/3000VDC min.
Temperature coefficient	0.03% per °C max
Operating temperature range	-40°C to 85°C
Storage temperature range	-55°C to 125°C

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

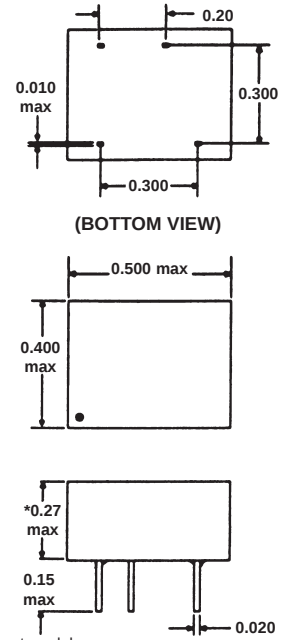
MECHANICAL SPECIFICATIONS

SINGLE-IN-LINE PACKAGE



* 0.30 max for 48VDC input models

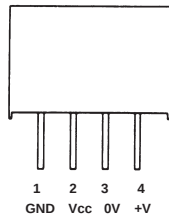
DUAL-IN-LINE PACKAGE



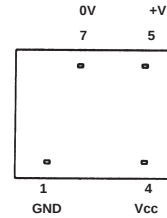
* 0.30 max for 48VDC input models

Pins .01 x .02 inches

PIN CONNECTIONS



SINGLE-IN-LINE PACKAGE



DUAL-IN-LINE PACKAGE (TOP VIEW)

DERATING CURVE

