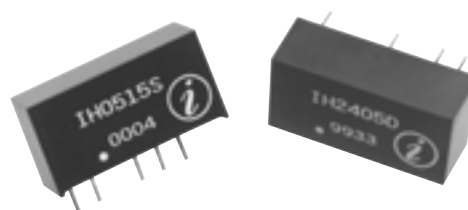


## International Power Sources, Inc.

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

## DC/DC Converters



### IH SERIES 2 WATT

SHOWN  
ACTUAL  
SIZE

## FEATURES

- 0.22 in<sup>2</sup> board space
- 75% Efficiency
- 5, 12, and 24 VDC Inputs
- 1000/3000 VDC Isolation
- SIP and DIP Packages
- Low cost

## MODELS CHART

| OUTPUT<br>VOLTAGE(S) | OUTPUT<br>CURRENT(S) | PART NUMBERS |             |             |
|----------------------|----------------------|--------------|-------------|-------------|
|                      |                      | 5VDC INPUT   | 12VDC INPUT | 24VDC INPUT |
| ±5VDC                | ±200mA               | IH0505       | IH1205      | IH2405      |
| ±9VDC                | ±111mA               | IH0509       | IH1209      | IH2409      |
| ±12VDC               | ±84mA                | IH0512       | IH1212      | IH2412      |
| ±15VDC               | ±66mA                | IH0515       | IH1215      | IH2415      |

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

Add suffix "H" for 3000 VDC isolation.

## ELECTRICAL SPECIFICATIONS

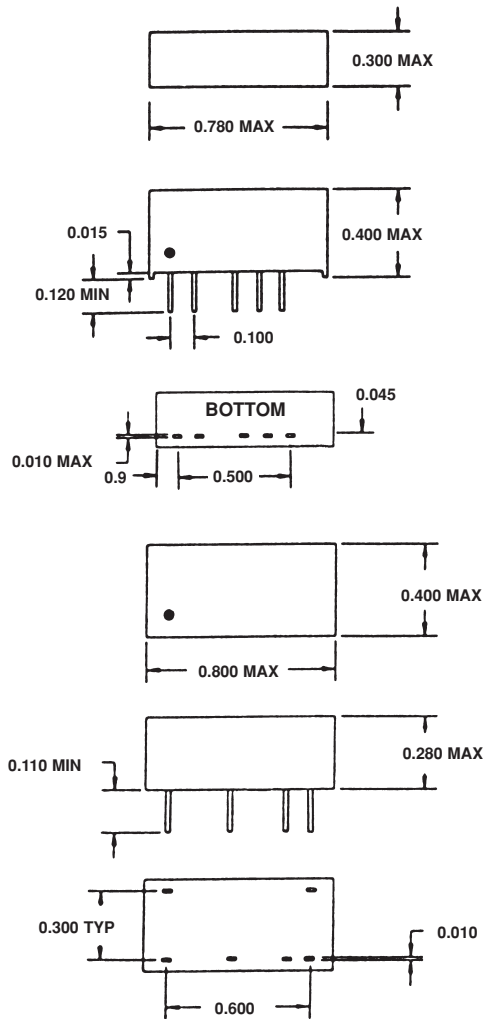
All specifications typical at nominal line, full load and 25°C

|                                     |                             |
|-------------------------------------|-----------------------------|
| 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) | 150mV p-p max.              |
| Efficiency at full load             | 75% 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               |
|                                     | -40°C to 71°C (no derating) |
| Storage temperature range           | -55°C to 125°C              |

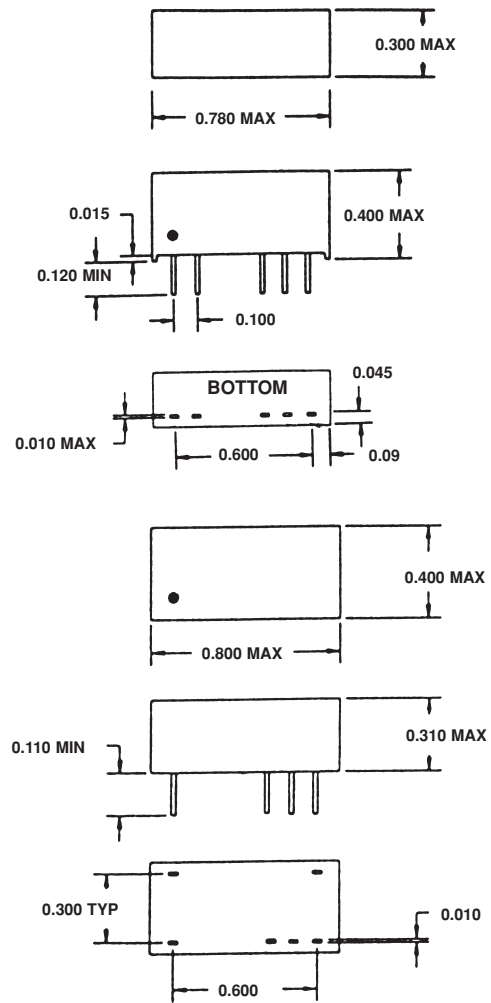
Specifications subject to change. Unit requires 10mm of air space.

## MECHANICAL SPECIFICATIONS

### 1000 VDC Isolation (Standard Pin Output)



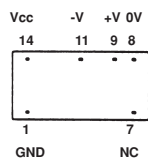
### 3000 VDC Isolation (H Option)



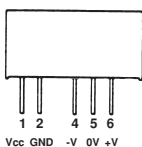
Pins .01 x .02 inches

## PIN CONNECTIONS

### 1000 VDC Isolation

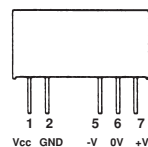
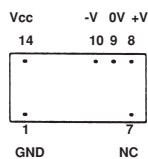


### DUAL-IN-LINE PACKAGE (TOP VIEW)

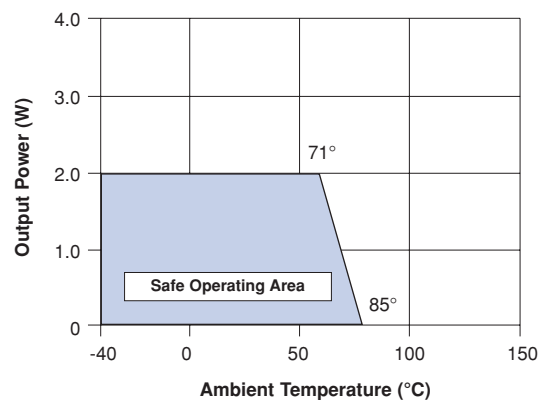


### SINGLE-IN-LINE PACKAGE

### 3000 VDC Isolation



## DERATING CURVE



Specifications subject to change