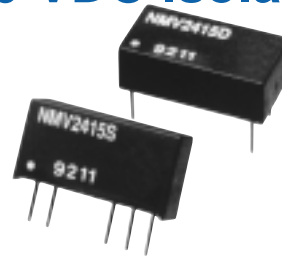


## International Power Sources, Inc.

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

## DC/DC Converters 3000 VDC Isolation



SHOWN  
 ACTUAL  
 SIZE

### NMV SERIES 1 WATT

### FEATURES

- 0.18 in<sup>2</sup> board space
- 80% Efficiency
- 15 Watts per in<sup>3</sup>
- 5, 12, 24 and 48 VDC Inputs
- SIP and DIL Packages
- 3000 VDC Isolation

### MODELS CHART

OUTPUT VOLTAGE(S)	OUTPUT CURRENT(S)	PART NUMBERS			
		5VDC INPUT	12VDC INPUT	24VDC INPUT	48VDC INPUT
5	200mA	NMV0505XA	NMV1205XA	NMV2405XA	NMV4805XA
9	112mA	NMV0509XA	NMV1209XA	NMV2409XA	NMV4809XA
12	84mA	NMV0512XA	NMV1212XA	NMV2412XA	NMV4812XA
15	67mA	NMV0515XA	NMV1215XA	NMV2415XA	NMV4815XA
±5	±100mA	NMV0505X	NMV1205X	NMV2405X	NMV4805X
±9	±56mA	NMV0509X	NMV1209X	NMV2409X	NMV4809X
±12	±42mA	NMV0512X	NMV1212X	NMV2412X	NMV4812X
±15	±34mA	NMV0515X	NMV1215X	NMV2415X	NMV4815X

Replace "X" with "S" for Single-In-Line Package, suffix "D" for Dual-In-Line Package.

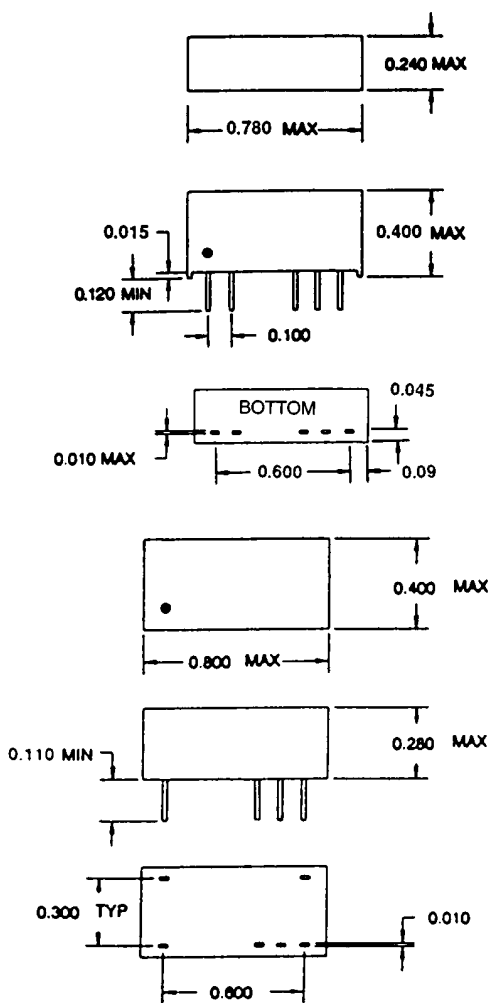
### ELECTRICAL SPECIFICATIONS

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

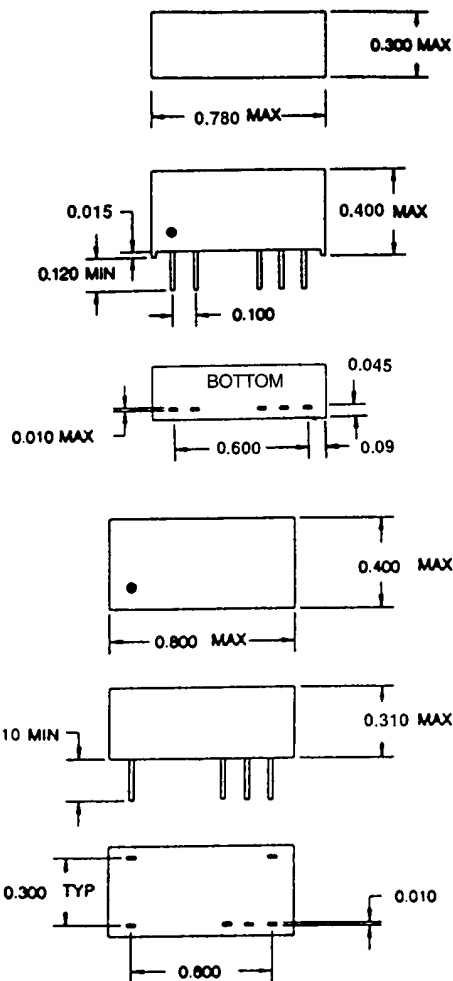
Input voltage range	±10%
Input reflected noise (20MHz BW)	80mV p-p
Output voltage accuracy	±5%
Line regulation (10% to 100% Load)	1.2%/1% of Vin
Load regulation (10% to 100% Load)	±10%
Output ripple and noise (20 MHz BW)	150mV p-p max.
Efficiency at full load, 9V, 12V and 15V outputs	80% typical, 70% min.
Efficiency at full load, 5V outputs	70% typical, 65% min.
Total output power (either output)	1 watt
Short circuit protection	1 second max.
Switching frequency	100 KHz
Input output isolation	3000VDC (1000 megohms) min.
Temperature coefficient	0.03% per °C max.
Operating temperature range, 5V and 12V inputs	-40°C to 85°C (no derating)
Operating temperature range, 24V and 48V inputs	0°C to 70°C (no derating)
Storage temperature range	-55°C to 125°C

# MECHANICAL SPECIFICATIONS

## 5, 12 & 24VDC INPUT MODELS



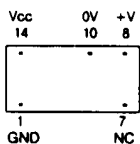
## 48VDC INPUT MODELS



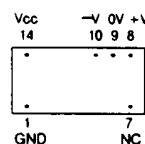
Pins .01 x .02 Inches

## PIN CONNECTIONS

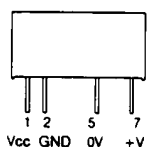
DUAL-IN-LINE PACKAGE (TOP VIEW)



DUAL-IN-LINE PACKAGE (TOP VIEW)

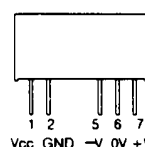


SINGLE-IN-LINE PACKAGE



SINGLE OUTPUT MODELS

SINGLE-IN-LINE PACKAGE



DUAL OUTPUT MODELS

Specifications subject to change