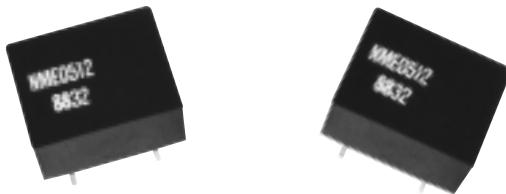


## International Power Sources, Inc.

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

## DC/DC Converters



SHOWN  
ACTUAL  
SIZE

### NME SERIES 1 WATT

#### FEATURES

- 0.12 in<sup>2</sup> board space
- 75% Efficiency
- 22 Watts per in<sup>3</sup>
- 5, 12, 24 and 48 VDC Inputs
- SIP and DIL Packages
- 1000 VDC Isolation

#### MODELS CHART

| OUTPUT VOLTAGE | OUTPUT CURRENTS | PART NUMBERS |             |             |             |
|----------------|-----------------|--------------|-------------|-------------|-------------|
|                |                 | 5VDC INPUT   | 12VDC INPUT | 24VDC INPUT | 48VDC INPUT |
| 5VDC           | 200mA           | NME0505      | NME1205     | NME2405     | NME4805     |
| 9VDC           | 110mA           | NME0509      | NME1209     | NME2409     | NME4809     |
| 12VDC          | 84mA            | NME0512      | NME1212     | NME2412     | NME4812     |
| 15VDC          | 67mA            | NME0515      | NME1215     | NME2415     | NME4815     |

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

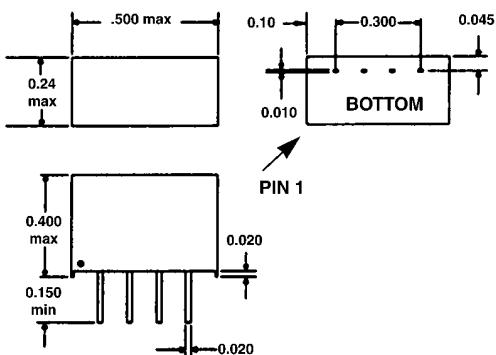
#### ELECTRICAL SPECIFICATIONS

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

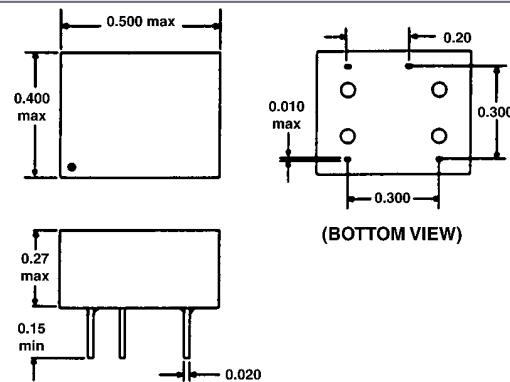
|  |                             |
|--|-----------------------------|
| Input voltage range                              | ±10%                        |
| Input reflected noise (20MHz BW)                 | 90mV p-p                    |
| Output voltage accuracy                          | ±5%                         |
| 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 | 75% typical, 70% min.       |
| Efficiency at full load, 5V outputs              | 70% typical, 65% min.       |
| Short circuit protection                         | 1 second max.               |
| Switching frequency                              | 100 KHz                     |
| Input output isolation                           | 1000VDC (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 150°C              |

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

## MECHANICAL SPECIFICATIONS

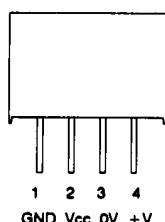


SINGLE-IN-LINE PACKAGE

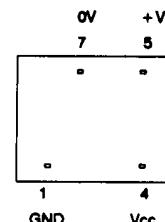


DUAL-IN-LINE PACKAGE

## PIN CONNECTIONS



SINGLE-IN-LINE PACKAGE



DUAL-IN-LINE PACKAGE (TOP VIEW)

## OUTPUT CHARACTERISTICS

