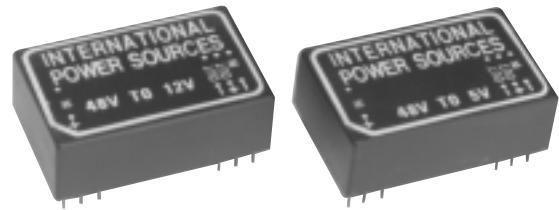


## International Power Sources, Inc.

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

## DC/DC Converters



### WR Series: 7.5 Watt Wide Input Range

### FEATURES

- 2:1 Input Range
- 1500 VDC Isolation
- Efficiency to 83%
- Input  $\pi$  Filter
- Fully Regulated Outputs
- 24 Pin-DIP Package

### MODELS CHART

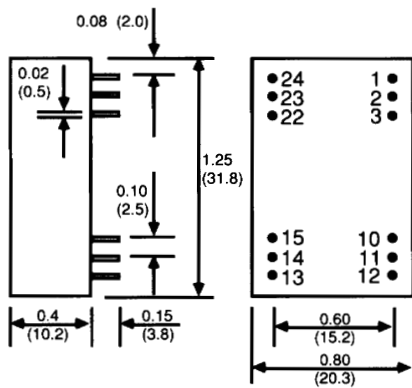
| MODEL NUMBER | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | INPUT CURRENT |           | % EFF |
|--------------|---------------|----------------|----------------|---------------|-----------|-------|
|              |               |                |                | NO LOAD       | FULL LOAD |       |
| WR201        | 9-18VDC       | 5VDC           | 1500mA         | 25mA          | 762mA     | 82    |
| WR202        | 9-18VDC       | 12VDC          | 625mA          | 25mA          | 762mA     | 82    |
| WR203        | 9-18VDC       | 15VDC          | 500mA          | 25mA          | 762mA     | 82    |
| WR204        | 9-18VDC       | $\pm 5$ VDC    | $\pm 750$ mA   | 30mA          | 762mA     | 82    |
| WR205        | 9-18VDC       | $\pm 12$ VDC   | $\pm 310$ mA   | 30mA          | 753mA     | 83    |
| WR206        | 9-18VDC       | $\pm 15$ VDC   | $\pm 250$ mA   | 30mA          | 753mA     | 83    |
| WR301        | 18-36VDC      | 5VDC           | 1500mA         | 20mA          | 381mA     | 82    |
| WR302        | 18-36VDC      | 12VDC          | 625mA          | 20mA          | 381mA     | 82    |
| WR303        | 18-36VDC      | 15VDC          | 500mA          | 20mA          | 381mA     | 82    |
| WR304        | 18-36VDC      | $\pm 5$ VDC    | $\pm 750$ mA   | 25mA          | 381mA     | 82    |
| WR305        | 18-36VDC      | $\pm 12$ VDC   | $\pm 310$ mA   | 25mA          | 377mA     | 83    |
| WR306        | 18-36VDC      | $\pm 15$ VDC   | $\pm 250$ mA   | 25mA          | 377mA     | 83    |
| WR401        | 36-72VDC      | 5VDC           | 1500mA         | 10mA          | 190mA     | 82    |
| WR402        | 36-72VDC      | 12VDC          | 625mA          | 10mA          | 190mA     | 82    |
| WR403        | 36-72VDC      | 15VDC          | 500mA          | 10mA          | 190mA     | 82    |
| WR404        | 36-72VDC      | $\pm 5$ VDC    | $\pm 750$ mA   | 15mA          | 190mA     | 82    |
| WR405        | 36-72VDC      | $\pm 12$ VDC   | $\pm 310$ mA   | 15mA          | 188mA     | 83    |
| WR406        | 36-72VDC      | $\pm 15$ VDC   | $\pm 250$ mA   | 15mA          | 188mA     | 83    |

# Electrical Specifications

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

| OUTPUT SPECIFICATIONS                     |                          |
|---|--------------------------|
| Voltage Accuracy                          | ±1.0% max.               |
| Line Regulation                           | ±0.2% max.               |
| Load Regulation Single (10% to full load) | ±0.5% max.               |
| Dual (25% to full load)                   | ±1.0% max.               |
| Ripple and Noise, 20MHz BW                | 75mV p-p max.            |
| Temperature Coefficient                   | ±0.05%/°C                |
| Short Circuit Protection                  | Continuous               |
| INPUT SPECIFICATIONS                      |                          |
| Input Voltage Range                       | See Table                |
| Input Filter                              | π Network                |
| GENERAL SPECIFICATIONS                    |                          |
| Switching Frequency                       | 200 kHz, min             |
| Efficiency                                | See Table                |
| Isolation (Input-Output)                  | 1500 VDC min (1000 Mohm) |
| ENVIRONMENTAL SPECIFICATIONS              |                          |
| Operating Temperature                     | -25°C to +71°C           |
| Case Temperature                          | 100°C max                |
| Storage Temperature                       | -40°C to +100°C          |

# Dimensions and Connections



(BOTTOM VIEW)

| PIN | SINGLE OUTPUT | DUAL OUTPUT   |
|-----|---------------|---------------|
| 1   | No Pin        | No Pin        |
| 2   | - V Input     | - V Input     |
| 3   | - V Input     | - V Input     |
| 9   | No Connection | Common        |
| 10  | No Connection | No Connection |
| 11  | No Connection | - V Output    |
| 12  | No Pin        | No Pin        |
| 13  | No Pin        | No Pin        |
| 14  | + V Output    | + V Output    |
| 15  | No Connection | No Connection |
| 16  | - V Output    | Common        |
| 22  | + V Input     | + V Input     |
| 23  | + V Input     | + V Input     |
| 24  | No Pin        | No Pin        |

Dimensions in inches (mm)  
Specifications subject to change.