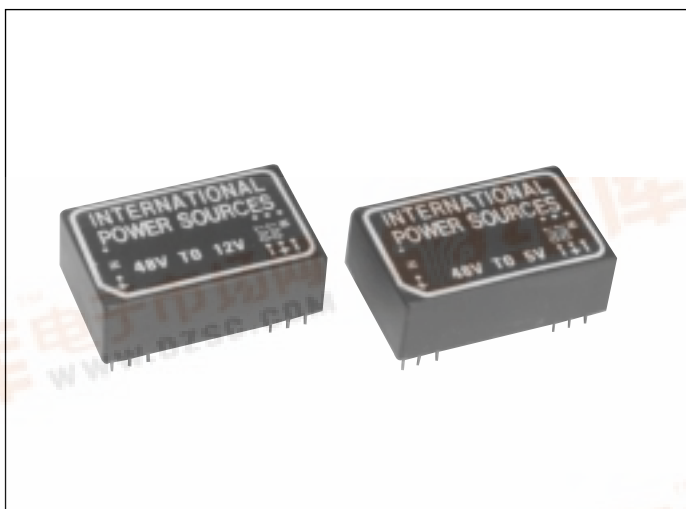


DC/DC Converters

XPiQ inc.
Intelligent Design Quality Product



**5 Watts
WT Series**



- 2:1 Input Range
- Isolated Outputs
- Efficiency to 82%
- Input π Filter
- Fully Regulated Outputs
- Optional 3k VDC Isolation

Specification

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

Input

- *Input Voltage Range* • See Table
- *Input Filter* • π Network

Output

- *Voltage Accuracy* • $\pm 3\%$ max.
- *Line Regulation (Full Input Range)* • $\pm 1\%$ max.
- *Load Regulation (1/4 Full Load)* • $\pm 2.5\%$ max.
- *Ripple & Noise (DC-20MHz)* • 1% of V_{out} p-p max.
- *Temperature Coefficient* • $\pm 0.05\%/^{\circ}\text{C}$ max.
- *Short Circuit Protection* • Indefinite

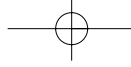
General

- *Switching Frequency* • 100 kHz
- *Efficiency* • See Table
- *Isolation (Input-Output)* • 500 VDC/3000 VDC* (1000 Mohm/80pF)

Environmental

- *Operating Temperature* • -25°C to $+71^{\circ}\text{C}$
- *Storage Temperature* • -55°C to $+105^{\circ}\text{C}$





| OUTPUT VOLTAGE & CURRENT RATINGS | | | | | | WT |
|----------------------------------|---------------|----------------|----------------|---------------|-----------|--------------|
| Model | Input Voltage | Output Voltage | Output Current | Input Current | | % Efficiency |
| | | | | No Load | Full Load | |
| WT201 | 9-18 VDC | 5 VDC | 1000 mA | 25 mA | 545 mA | 76 |
| WT202 | 9-18 VDC | 12 VDC | 470 mA | 25 mA | 585 mA | 80 |
| WT203 | 9-18 VDC | 15 VDC | 400 mA | 25 mA | 625 mA | 80 |
| WT204 | 9-18 VDC | ±5 VDC | ±500 mA | 68 mA | 630 mA | 66 |
| WT205 | 9-18 VDC | ±12 VDC | ±230 mA | 25 mA | 575 mA | 80 |
| WT206 | 9-18 VDC | ±15 VDC | ±190 mA | 25 mA | 590 mA | 80 |
| WT301 | 18-36 VDC | 5 VDC | 1000 mA | 15 mA | 265 mA | 78 |
| WT302 | 18-36 VDC | 12 VDC | 470 mA | 15 mA | 285 mA | 82 |
| WT303 | 18-36 VDC | 15 VDC | 400 mA | 15 mA | 305 mA | 82 |
| WT304 | 18-36 VDC | ±5 VDC | ±500 mA | 35 mA | 300 mA | 70 |
| WT305 | 18-36 VDC | ±12 VDC | ±230 mA | 15 mA | 285 mA | 81 |
| WT306 | 18-36 VDC | ±15 VDC | ±190 mA | 15 mA | 295 mA | 81 |
| WT401 | 36-72 VDC | 5 VDC | 1000 mA | 10 mA | 130 mA | 80 |
| WT402 | 36-72 VDC | 12 VDC | 470 mA | 10 mA | 143 mA | 82 |
| WT403 | 36-72 VDC | 15 VDC | 400 mA | 10 mA | 152 mA | 82 |
| WT404 | 36-72 VDC | ±5 VDC | ±500 mA | 10 mA | 160 mA | 65 |
| WT405 | 36-72 VDC | ±12 VDC | ±230 mA | 10 mA | 140 mA | 82 |
| WT406 | 36-72 VDC | ±15 VDC | ±190 mA | 10 mA | 145 mA | 82 |

Notes

Nominal Input Voltage 12, 24, or 48 VDC.

For optional 4:1 input range:

9-36VDC: add suffix "A" to WT200 series.

20-72VDC: add suffix "A" to WT300 series.

Mechanical Details

(Bottom View)

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

| 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 |

Alternate Pin Out
3000 VDC Isolation
Suffix "X"
Dimensions in inches (mm)
Specifications subject to change.
* 3000 VDC on "X" Package

