



# TRUMPower

## DC/DC CONVERTERS

# T2-H5 Series

## 5.2K VDC Isolation, 1.5-3 Watts

| OUTPUT VOLTAGE | OUTPUT CURRENT | OUTPUT POWER | MODEL NUMBER |             |             |             |
|----------------|----------------|--------------|--------------|-------------|-------------|-------------|
|                |                |              | 5 VDC IN     | 12 VDC IN   | 24 VDC IN   | 48 VDC IN   |
| 5 VDC          | 300 mA         | 1.5W         | T2-1S0505H5  | T2-1S1205H5 | T2-1S2405H5 | T2-1S4805H5 |
| 12 VDC         | 125 mA         | 1.5W         | T2-1S0512H5  | T2-1S1212H5 | T2-1S2412H5 | T2-1S4812H5 |
| 15 VDC         | 100 mA         | 1.5W         | T2-1S0515H5  | T2-1S1215H5 | T2-1S2415H5 | T2-1S4815H5 |
| ±5 VDC         | ±150 mA        | 1.5W         | T2-1D0505H5  | T2-1D1205H5 | T2-1D2405H5 | T2-1D4805H5 |
| ±12 VDC        | ±63 mA         | 1.5W         | T2-1D0512H5  | T2-1D1212H5 | T2-1D2412H5 | T2-1D4812H5 |
| ±15 VDC        | ±50 mA         | 1.5W         | T2-1D0515H5  | T2-1D1215H5 | T2-1D2415H5 | T2-1D4815H5 |
| 5 VDC          | 400 mA         | 2W           | T2-2S0505H5  | T2-2S1205H5 | T2-2S2405H5 | T2-2S4805H5 |
| 12 VDC         | 167 mA         | 2W           | T2-2S0512H5  | T2-2S1212H5 | T2-2S2412H5 | T2-2S4812H5 |
| 15 VDC         | 133 mA         | 2W           | T2-2S0515H5  | T2-2S1215H5 | T2-2S2415H5 | T2-2S4815H5 |
| ±5 VDC         | ±200 mA        | 2W           | T2-2D0505H5  | T2-2D1205H5 | T2-2D2405H5 | T2-2D4805H5 |
| ±12 VDC        | ±83 mA         | 2W           | T2-2D0512H5  | T2-2D1212H5 | T2-2D2412H5 | T2-2D4812H5 |
| ±15 VDC        | ±67 mA         | 2W           | T2-2D0515H5  | T2-2D1215H5 | T2-2D2415H5 | T2-2D4815H5 |
| 5 VDC          | 600 mA         | 3W           | T2-3S0505H5  | T2-3S1205H5 | T2-3S2405H5 | T2-3S4805H5 |
| 12 VDC         | 250 mA         | 3W           | T2-3S0512H5  | T2-3S1212H5 | T2-3S2412H5 | T2-3S4812H5 |
| 15 VDC         | 200 mA         | 3W           | T2-3S0515H5  | T2-3S1215H5 | T2-3S2415H5 | T2-3S4815H5 |
| ±5 VDC         | ±300 mA        | 3W           | T2-3D0505H5  | T2-3D1205H5 | T2-3D2405H5 | T2-3D4805H5 |
| ±12 VDC        | ±125 mA        | 3W           | T2-3D0512H5  | T2-3D1212H5 | T2-3D2412H5 | T2-3D4812H5 |
| ±15 VDC        | ±100 mA        | 3W           | T2-3D0515H5  | T2-3D1215H5 | T2-3D2415H5 | T2-3D4815H5 |

Other input/output combinations available.

### ELECTRICAL SPECIFICATIONS

All Specifications Typical @+25°C, Nominal Line, and Full Load Unless Otherwise Noted.

### INPUT SPECIFICATIONS

Input Voltage Range.....±10%  
 Input Filter.....Pi Filter

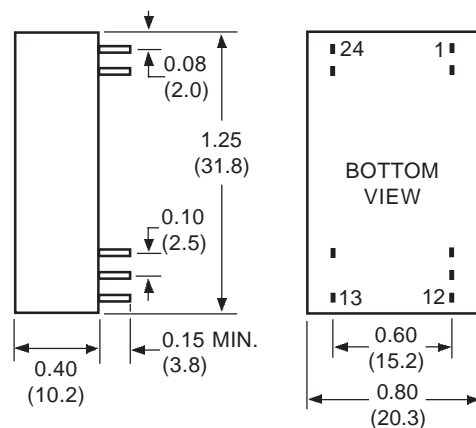
### OUTPUT SPECIFICATIONS

Voltage Accuracy.....±2%, Max.  
 Voltage Balance, Balance Load.....±2%, Max.  
 Line Regulation.....±0.5%, Max.  
 Load Regulation, FL-10%FL.....±0.5%, Max.  
 Ripple and Noise, 20MHz BW.....75 mVp-p, Max.  
 Short Circuit Protection.....Continuous  
 Temperature Coefficient.....±0.02%/C, Max.

### GENERAL SPECIFICATIONS

Efficiency.....60%, Typ.  
 Isolation Voltage, Input to Output.....5,200 VDC, Min.  
 Isolation Resistance, 500 VDC.....10 GΩ, Min.  
 Isolation Capacitance.....60pF, Typ.  
 Switching Frequency.....125 kHz, Typ.  
 Operating Temperature, No Derating.....-25°C to +60°C  
 Storage Temperature Range.....-40°C to +125°C  
 Cooling.....Free Air Convection  
 MTBF per MIL-HDBK-217F @25°C.....>600,000 Hours  
 Weight.....0.42 oz. (12 grams)  
 Case Material.....Non-Conductive Black Plastic

| PIN CONNECTIONS |           |           |
|-----------------|-----------|-----------|
| PIN             | SINGLE    | DUAL      |
| 1,2             | +V Input  | +V Input  |
| 10,11           | No Pin    | Common    |
| 12              | -V Output | No Pin    |
| 13              | +V Output | -V Output |
| 15              | No Pin    | +V Output |
| 23,24           | -V Input  | -V Input  |



PIN SIZE: 0.02 (0.5) DIA. OR 0.02 X 0.01 INCH  
 ALL DIMENSIONS IN INCHES (mm)