



**TRUMPower**  
DC/DC CONVERTERS

**TAW Series**  
**4:1 Input, 24-pin DIP, 1.5-3 Watt**

OUTPUT VOLTAGE	OUTPUT CURRENT	*OUTPUT POWER	*MODEL NUMBER	
			9-36 VDC IN	18-72 VDC IN
3.3 VDC	900 mA	3W	TAW-3S243.3	TAW-3S483.3
5 VDC	600 mA	3W	TAW-3S2405	TAW-3S4805
12 VDC	250 mA	3W	TAW-3S2412	TAW-3S4812
15 VDC	200 mA	3W	TAW-3S2415	TAW-3S4815
24 VDC	125 mA	3W	TAW-3S2424	TAW-3S4824
±3.3 VDC	±450 mA	3W	-----	TAW-3D483.3
±5 VDC	±300 mA	3W	TAW-3D2405	TAW-3D4805
±12 VDC	±125 mA	3W	TAW-3D2412	TAW-3D4812
±15 VDC	±100 mA	3W	TAW-3D2415	TAW-3D4815
±24 VDC	±63 mA	3W	TAW-3D2424	TAW-3D4824

Other outputs also available.

\*For 1.5W version, specify TAW-1XXXXX; for 2W version, specify TAW-2XXXXX.

\*Add suffix "H" for 3.5KV isolation.

## ELECTRICAL SPECIFICATIONS

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

### INPUT SPECIFICATIONS

Input Voltage.....See Table  
Nominal Input, 9-36V Input.....24 VDC  
18-72V Input.....48 VDC  
Input Filter.....Pi Network

### OUTPUT SPECIFICATIONS

Voltage Accuracy.....±0.5%, Max.  
Voltage Balance, Balance Load.....±0.5%, Max.  
Line Regulation.....±0.5%, Max.  
Load Regulation, 10%FL-FL.....±1.0%, Max.  
Minimum Load.....10% on Each Output  
Ripple and Noise, 20MHz BW.....60 mVp-p, Max.  
Short Circuit Protection.....Continuous

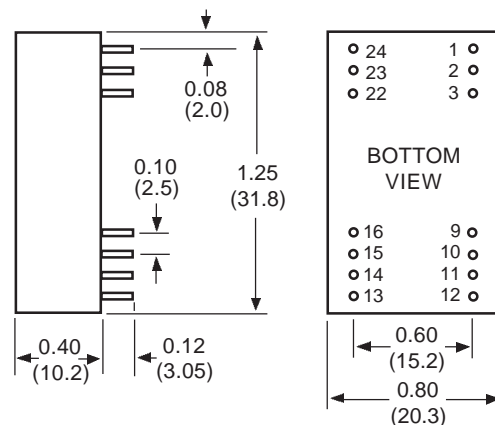
### GENERAL SPECIFICATIONS

Efficiency.....74 - 80%  
Isolation Voltage, Input to Output.....1,500 VDC, Min.  
Suffix "H" .....3,500 VDC, Min.  
Isolation Resistance.....10<sup>9</sup> Ohms, Min.  
Switching Frequency.....250 kHz, Typ.  
Operating Temperature, No Derating.....-25°C to +71°C  
Storage Temperature Range.....-40°C to +125°C  
Cooling.....Free Air Convection  
MTBF per MIL-HDBK-217F @25°C.....>1,000k Hours  
Weight.....0.65 oz. (18.5 grams)  
Case Material, Standard.....Non-Conductive Plastic  
Suffix "M" ....Metal with Non-Conductive Base

PIN CONNECTIONS				
ISOL.	1.5K VDC		3.5K VDC	
FUNC.	SINGLE	DUAL	SINGLE	DUAL
+Vin	1, 24	1, 24	22,23	22, 23
-Vin	12, 13	12, 13	2,3	2, 3
+Vout	11, 14	11, 14	14	14
Com.	-	3,10,15,22	-	9, 16
-Vout	10, 15	2, 23	16	11
*NC	2,3,22,23	-	11	-

\*NC: No connection.

No pin on other pin locations.



PIN SIZE: 0.02 INCH (0.5mm) DIA. OR 0.02 X 0.14 INCH  
ALL DIMENSIONS IN INCHES (mm)