TRUMPower
DC/DC CONVERTERS

TA2 Series
2:1 Input, 24-pin DIP, 4-6 Watt

OUTPUT VOLTAGE	OUTPUT CURRENT	*OUTPUT POWER	*MODEL NUMBER		
			9-18 VDC IN	18-36 VDC IN	36-72 VDC IN
3.3 VDC	1000 mA	4W	TA2-4S123.3	TA2-4S243.3	TA2-4S483.3
5 VDC	800 mA	4W	TA2-4S1205	TA2-4S2405	TA2-4S4805
12 VDC	333 mA	4W	TA2-4S1212	TA2-4S2412	TA2-4S4812
15 VDC	267 mA	4W	TA2-4S1215	TA2-4S2415	TA2-4S4815
24 VDC	167 mA	4W	TA2-4S1224	TA2-4S2424	TA2-4S4824
±3.3 VDC	±500 mA	4W	TA2-4D123.3	TA2-4D243.3	TA2-4D483.3
±5 VDC	±400 mA	4W	TA2-4D1205	TA2-4D2405	TA2-4D4805
±12 VDC	±167 mA	4W	TA2-4D1212	TA2-4D2412	TA2-4D4812
±15 VDC	±133 mA	4W	TA2-4D1215	TA2-4D2415	TA2-4D4815
±24 VDC	±84 mA	4W	TA2-4D1224	TA2-4D2424	TA2-4D4824

Other outputs also available.
*For 5W version, specify TA2-5XXXXX; for 6W version, specify TA2-6XXXXX.
*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, 9-18V Input.....12 VDC
18-36V Input.....24 VDC
36-72V Input.....48 VDC
Input Filter.....Pi Network

OUTPUT SPECIFICATIONS

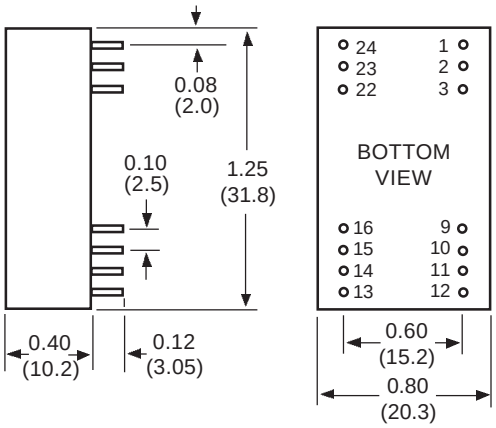
Voltage Accuracy.....±1%, Max.
Voltage Balance, Balance Load.....±1%, Max.
Line Regulation.....±0.5%, Max.
Load Regulation, 10%FL-FL.....±0.5%, Max.
Minimum Load.....10% on Each Output
Ripple and Noise, 20MHz BW.....60 mVp-p, Max.
Short Circuit Protection.....Continuous

GENERAL SPECIFICATIONS

Efficiency.....75 - 85%
Isolation Voltage, Input to Output.....1,500 VDC, Min.
Suffix "H".....3,500 VDC, Min.
Isolation Resistance.....10^9 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.....0.6 oz. (19 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)

Tumbler Technologies + TRUMPower • Santa Clara, CA • 408-988-6616 • sales@trumpower.com • **www.TRUMPower.com**