



TRUMPower
DC/DC CONVERTERS

TAA Series
2:1 Input, 12-pin DIP, 1-2 Watts

OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER	MODEL NUMBER		
			4.5 - 9 VDC IN	9 - 18 VDC IN	18 - 36 VDC IN
5 VDC	200 mA	1W	TAA-1S0505	TAA-1S1205	TAA-1S2405
9 VDC	111 mA	1W	TAA-1S0509	TAA-1S1209	TAA-1S2409
12 VDC	84 mA	1W	TAA-1S0512	TAA-1S1212	TAA-1S2412
15 VDC	67 mA	1W	TAA-1S0515	TAA-1S1215	TAA-1S2415
24 VDC	42 mA	1W	TAA-1S0524	TAA-1S1224	TAA-1S2424

Other input and output combinations also available.
For 2W version, specify TAA-2SXXXX, i.e. TAA-2S0505, etc.

ELECTRICAL SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage.....See Table
Nominal Input.....5, 12, 24, 36 VDC
Input Filter.....Capacitors

ISOLATION SPECIFICATIONS

Isolation Voltage, Input to Output.....1,000 VDC, Standard
3,000 VDC, Suffix "H"
Resistance.....1,000M Ω, Min.
Capacitance.....80 pF, Typ.

OUTPUT SPECIFICATIONS

Voltage Accuracy.....± 2%, Max.
Ripple and Noise (at 20 MHz BW).....80 mVp-p, Max.
Short Circuit Protection.....Continuous
Short Circuit Restart.....Automatic
Line Regulation.....± 0.5%, Max.
Load Regulation.....± 0.5%, Max.
Temperature Coefficient.....± 0.02% / °C
Capacitive Load.....3.3V, 5V Output - 330 μF, Max.
9V, 12V, 15V Output - 470 μF, Max.
24V Output - 220 μF, Max.

OTHER SPECIFICATIONS

Efficiency.....62% to 72%
Switching Frequency.....350KHz, Typ.
Operating Temperature.....-25°C to +85°C
Case Temperature.....95°C, Max.
Storage Temperature.....-40°C to +125°C
Cooling.....Free-air Convection
Derating.....Not Required

PIN	CONNECTION
1, 2	- V Input
6, 8	No Connection
9	+ V Output
11	- V Output
15, 16	+ V Input

