



FEATURES

- IEC 320/C14 AC Inlet
- Dual & Triple Outputs
- DOE Level VI Compliance
- 0.3W No-Load Power Consumption
- Approved to UL/IEC/EN 60950-1 2nd Edition
- 70°C Maximum Operating Temperature
- Power-On Indicator



INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC
Input Frequency	47-63Hz
Input Current	1.35A rms max. @ 100 VAC, 0.80A rms max. @ 240 VAC
Inrush Current	20A @ 115 VAC or 40A @ 230 VAC, at 25°C cold start
Earth Leakage Current	750 µA max. @ 240 VAC, 60Hz

OUTPUT SPECIFICATIONS

Output Power Ratings	See table
No Load Power Cons	0.3W typical
Minimum Load	See table
Line Regulation	±1% max.
Load Regulation	±5% max., except ±7% max. for 3.3V
Ripple and Noise*	1% peak to peak max. @ full load
Over Load Protection	Set at 110-150%; Auto-recovery
Over Voltage Protection	Set at 112-132%
Short Circuit Protection	Auto-recovery
Temperature Coefficient	±0.04%/°C max.
Transient Response	4 ms @ 100 VAC, full load

* Measured with 20MHz bandwidth at rated line voltage and output load ranges, with a 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor in parallel across the output.

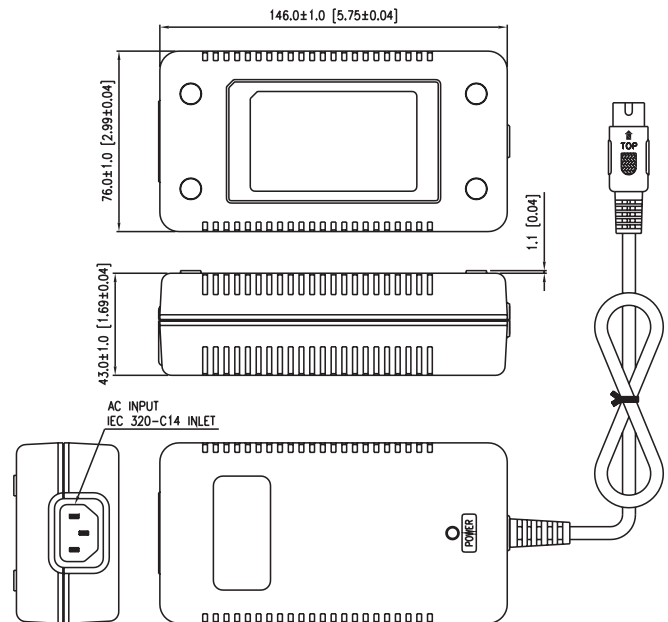
GENERAL SPECIFICATIONS

Efficiency	80-84% typical @ full load
Switching Frequency	60 KHz
Operating Altitude	5,000 meters max.
Start Up Time	3 sec. max. @ full load
Hold-Up Time	12 ms min. @ full load
Operating Temperature	0°C to +70°C
Derating	Derate from 100% at +40°C linearly to 50% at +70°C
Storage Temperature	-40°C to +85°C
Operating Humidity	0% to 95% non-condensing
Storage Humidity	0% to 95% non-condensing
Withstand Voltage	4,242 VDC input-output 2,677 VDC input-ground
MTBF	100K hours minimum at full load, 25°C ambient, calculated per MIL-HDBK-217F

STANDARDS & COMPLIANCES

EN 55022	Class B, conducted & radiated
FCC, CISPR22	Class B, conducted & radiated
EN 61000-3-2	Harmonic distortion, Class A & D
EN 61000-3-3	Line flicker
EN 61000-4-2	ESD, ±8 KV air and ±6 KV contact
EN 61000-4-3	Radiated immunity, 3V/m
EN 61000-4-4	Fast transient/burst, ±2 KV
EN 61000-4-5	Surge, ±1 KV diff., ±2 KV com.
EN 61000-4-6	Conducted immunity, 3 Vrms
EN 61000-4-8	Magnetic field immunity, 3A/m
EN 61000-4-11	Voltage dip immunity, 30% reduction for 500ms, 60% reduction for 100ms, >95% reduction for 10ms
Safety Standards	UL/IEC/EN 60950-1 2 nd Edition
Agency Approvals	UL, cUL, TUV/GS, CE, CB, PSE
Other Compliances	RoHS2, DOE Level VI

MECHANICAL SPECIFICATIONS



- Notes:
1. Unit: mm [inch]
 2. Weight: 560g (1.24 lbs) approx.
 3. Standard output connector is a 5-pin DIN plug or equivalent. Contact TRUMPower for further information.

MODELS LIST

Product No.	Output #1			Output #2			Output #3			Maximum Output Power
	Output Voltage	Minimum Load	Maximum Output Current	Output Voltage	Minimum Load	Maximum Output Current	Output Voltage	Minimum Load	Maximum Output Current	
TSA42-D20	+3.3V	0.5A	5A	+12V	0.3A	2A				40W
TSA42-D21	+5V	0.5A	5A	+12V	0.3A	2A				42W
TSA42-D22	+5V	0.8A	5A	+15V	0.3A	1.5A				42W
TSA42-D23	+5V	0.5A	5A	+24V	0.1A	1A				42W
TSA42-D24	+3.3V	0.5A	5A	+5V	0.2A	2A				26.5W
TSA42-D25	+12V	0.3A	3A	-12V	0.1A	1A				42W
TSA42-D26	+15V	0.2A	2A	-15V	0.1A	1A				42W
TSA42-D27	+5V	0.5A	5A	-24V	0.1A	1A				42W
TSA42-D28	+5.1V	0A	1A	+7.2V	0.2A	2.6A				23.82W
TSA42-T30	+3.3V	1A	5A	+12V	0.3A	2A	-12V	0.1A	0.8A	42W
TSA42-T31	+5V	0.5A	5A	+12V	0.2A	2A	-5V	0A	0.8A	42W
TSA42-T32	+5V	0.5A	5A	+12V	0.2A	2A	-12V	0A	0.8A	42W
TSA42-T33	+5V	0.5A	5A	+15V	0.4A	2A	-15V	0A	0.8A	42W
TSA42-T34	+5V	0.5A	5A	+24V	0.2A	1A	-24V	0A	0.5A	42W
TSA42-T35	+5V	0.5A	5A	+24V	0.1A	1A	-12V	0A	0.8A	42W
TSA42-T36	+3.3V	0.5A	5A	+12V	0.4A	2A	-5V	0A	0.8A	42W