INPUT SPECIFICATIONS

Input Voltage Range ...................... 90-264 VAC
Input Frequency .......................... 47-63 Hz
Input Current ............................. 3A rms @ 115 VAC,
1.5A rms @ 230 VAC
Inrush Current ........................... 25A max. @ 115 VAC or 50A max. @ 230 VAC, at 25°C cold start
Touch Current ........................... 100 µA max. @ 240 VAC, 60 Hz
Earth Leakage Current ............. 250 µA max. @ 240 VAC, 60 Hz
No Load Power Consumption... 0.3W max.

OUTPUT SPECIFICATIONS

Output Power Ratings .............. See models list
Output Regulation ..................... See models list
Ripple & Noise ....................... See models list
Overvoltage Protection .......... Set at 112-132% of its nominal output voltage; Latch off
Overload Protection ............... Shut down; Auto-recovery
Short Circuit Protection ........ Shut down; Auto-recovery
Over Temp. Protection ............ Shut down; Auto-recovery
Temperature Coefficient........ ±0.04%/°C max.
Transient Response ............... 4 ms @ 115 VAC, full load
Hold-Up Time ......................... 16 ms min. @ 115 VAC, full load

GENERAL SPECIFICATIONS

Power Factor ............................ > 0.95 @ 115 VAC,
> 0.9 @ 230 VAC; full load
Efficiency ................................ 86% min. average
Hold-up Time ......................... 16 ms @ 100 VAC
Switching Frequency ................ 70-90 Khz, full load
Line Regulation ...................... ±1% max. at full load
Operating Temperature .......... -20°C to +60°C
Output Power Derating ........ See derating chart
Storage Temperature ............. -40°C to +85°C
Relative Humidity ................. 0-95%, non-condensing
Withstand Voltage ................ 3,000 VAC, input-output,
1,500 VAC, input-ground,
1,500 VAC, output-ground
Operating Altitude .............. 5,000 meters max.
MTBF .................................. 300K hours minimum at full load,
25°C ambient, calculated per Bellcore TR-332

MODELS LIST

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* Ripple & Noise are measured with 20MHz bandwidth at nominal line and rated output load ranges, with a 47µF electrolytic capacitor and a 0.1 µF ceramic capacitor in parallel at output connector.

STANDARDS & COMPLIANCE

EN 55032 & 55035 .......... Class B, conducted & radiated
FCC ............................... Class B, conducted & radiated
EN 61000-3-2 .......... Harmonic distortion, Class A & D
EN 61000-3-3 .......... Line flicker
EN 61000-4-2 .......... ESD, ±15 KV air and ±8 KV contact
EN 61000-4-3 .......... Radiated immunity, 10V/m
EN 61000-4-4 .......... Fast transient/burst, ±2 KV
EN 61000-4-5 .......... Surge, ±1 KV diff., ±2 KV comm.
EN 61000-4-6 .......... Conducted immunity, 10 Vrms
EN 61000-4-8 .......... Magnetic field immunity, 30 A/m
EN 61000-4-11 .......... Voltage dips, 30% reduction for 500 ms,
60% reduction for 100 ms,
>95% reduction for 20 ms

Safety Standards ............... IEC/EN/UL/CSA 62368-1 (2nd Ed.)
Agency Approvals ............. UL, cUL, TUV, CE, CB
Other Compliance .............. RoHS, DoE/CEC Level VI,
EU ErP Tier 2

*It meets IEC/EN/UL 60601-1 (Edition 3.1) and 60601-1-2 (4th Edition) medical standards, but series does not currently have medical safety certifications.
OUTPUT POWER DERATING CHARTS

MECHANICAL SPECIFICATIONS

Notes:
1. Unit: mm
2. Tolerance: ±1mm unless specified
3. Weight: 1,000 grams approx.
4. Output Connector: 10-pin 4.2mm pitch male plug or equivalent
5. Mating Connector: Molex P/N 39-28-123 or equivalent
6. Contact TRUMPower for other output connector options.