FEATURES

- 90~264 VAC Universal Input
- 0.98 Active Power Factor
- Efficiency of 85% Minimum
- Low Safety Ground Leakage Current
- Certified to Medical and ITE Safety Standards

MODELS LIST

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Output Voltage</th>
<th>Maximum Current @ 13CFM</th>
<th>Maximum Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMP400-18</td>
<td>18V</td>
<td>22.23A</td>
<td>400W</td>
</tr>
<tr>
<td>TMP400-24</td>
<td>24V</td>
<td>16.67A</td>
<td>400W</td>
</tr>
<tr>
<td>TMP400-28</td>
<td>28V</td>
<td>14.29A</td>
<td>400W</td>
</tr>
<tr>
<td>TMP400-36</td>
<td>36V</td>
<td>11.12A</td>
<td>400W</td>
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<tr>
<td>TMP400-48</td>
<td>48V</td>
<td>8.34A</td>
<td>400W</td>
</tr>
</tbody>
</table>

INPUT SPECIFICATIONS

- Input Voltage Range .......... 90~264 VAC
- Input Frequency .............. 47~63Hz
- Input Current .................. 4.2A rms @ 115 VAC, 60 Hz
- Inrush Current ................ 20A @ 115 VAC or 40A @ 230 VAC, at 25°C cold start
- Earth Leakage Current ....... 300µA max. @ 264 VAC, 63 Hz
- Touch Current .................. 100µA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

- Output Power Ratings ........ See table
- Minimum Load ................... Not required
- Tolerance ....................... ±5%
- Ripple and Noise* ............... 1% peak to peak max. at full load
- Overvoltage Protection ........ Set at 115-140% of its nominal output voltage
- Overcurrent Protection ........ Protected to short-circuit conditions
- Thermal Shutdown ............... Protected to over temperature conditions
- Temperature Coefficient ...... ±0.04%/°C max.
- Transient Response ............. Max. excursion of 4% or better on all models, recovering to 1% of final value within 500 us after a 25% step load change

* 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

- Power Factor .................... 0.98 typical @ 115 VAC
- Efficiency ....................... 85% min. @ 115 VAC or 230 VAC
- Hold-up Time ..................... 12ms @ 110 VAC & 400W
- Switching Frequency .......... 85 KHz typical
- Line Regulation ................. ±0.5% max. at full load
- Operating Temperature .......... 0°C to +60°C
- Derating ......................... Derate from 100% at +40°C linearly to 50% at +60°C
- Storage Temperature ........... -40°C to +85°C
- Relative Humidity .............. 5% to 95% non-condensing
- Withstand Voltage .......... 5,600 VDC from input to output
- MTBF .............................. 350K hours minimum at full load, 25°C ambient, calculated per MIL-HDBK-217F

STANDARDS & COMPLIANCES

- EN 55011/EN 55022 ............... Class B, conducted & radiated
- FCC ............................... Class B, conducted & radiated
- VCCI .............................. Class B, conducted & radiated
- EN 61000-3-2 ...................... Harmonic distortion, Class B & 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 dips, 30% reduction for 500ms,
- Safety Standards ............... IEC/EN/UL 60601-1 3rd Ed.
- Agency Approvals ............... UL, cUL, TUV, CE, CB
- Other Compliances .............. RoHS, CEC & Energy Star Level V
MECHANICAL SPECIFICATIONS

Unit: inch [mm]
Tolerance: 0.02 [0.5] maximum

<table>
<thead>
<tr>
<th>DC OUTPUT CONNECTOR</th>
<th>PIN</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>+V</td>
</tr>
<tr>
<td>2</td>
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<tr>
<td>8</td>
<td></td>
<td>RETURN</td>
</tr>
</tbody>
</table>

Notes:
1. Standard output connector: Molex Mini-Fit receptacle, P/N 39-01-2080 with female terminal #5556 or equivalent.
2. Mating connector: Molex plug 39-01-2086 and male terminal #5558, #5566, #5599 or equivalent.
3. Contact TRUMPower for output connector options.
4. Weight: 1.5kg (3.28 lbs) approx.