TDM300 Series
300 Watts Medical & ITE Grade Power Adapters

FEATURES
- IEC 320/C14 & C18 Inlets
- LED Power Indicator
- Single 300W Continuous Output @ Convection
- Over-Voltage, Over-Current & Over-Temperature Protections
- Approved to IEC/EN/UL 60601-1 3.1 & IEC 60950-1 2nd Ed.
- CEC, DOE Level VI & ErP Stage 2 Compliant
- UL, cUL, TUV, CE, PSE Approved

INPUT SPECIFICATIONS
- Input Voltage Range .......... 90-264 VAC
- Input Frequency .......... 47-63 Hz
- Input Current .......... 3.4A rms max. @ 115 VAC
- Inrush Current .......... 100A @ 230 VAC, at 25°C cold start
- Touch Current .......... 100 µA max. @ 264 VAC
- Earth Leakage Current .......... 200 µA max. @ 264 VAC (Class I)

OUTPUT SPECIFICATIONS
- Output Power Ratings .......... See table
- No Load Power Cons. .......... 0.5W max.
- Line Regulation .......... ±1% max.
- Load Regulation .......... ±5% max.
- Ripple and Noise* .......... 2% Vp-p max. of the output voltage
- Over Voltage Protection .......... Set at 150% of its nominal output voltage; Latch off
- Over Temp. Protection .......... Shutdown; Auto recovery
- Short Circuit Protection .......... Shutdown; Auto recovery
- Over Current Protection .......... Set at 170% of its nominal input voltage; Shutdown
- Temperature Coefficient .......... ±0.04%/°C max.
- Transient Response .......... 0.5 ms @ 50% load change
* Peak-to-peak value measured with 20MHz bandwidth with a 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor.

GENERAL SPECIFICATIONS
- Power Factor .......... 0.95 typical @ full load
- Efficiency .......... 92% typical @ full load
- Hold-up Time .......... 10 ms @ full load
- Operating Temperature .......... 0°C to +40°C
- Storage Temperature .......... -20°C to +80°C
- Operating Humidity .......... 20% to 80% non-condensing
- Storage Humidity .......... 10% to 90% non-condensing
- Withstand Voltage .......... 4,000 VAC, input-output (2 MOPP)
- 1,500 VAC, input-ground (1 MOPP)
- MTBF .......... 300 Khrs minimum at full load, 25°C ambient, calculated per Telecordia SR-332

MODELS LIST

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Output Voltage</th>
<th>Output Current</th>
<th>Max. Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDM300-12</td>
<td>12V</td>
<td>25A</td>
<td>300W</td>
</tr>
<tr>
<td>TDM300-15</td>
<td>15V</td>
<td>20A</td>
<td>300W</td>
</tr>
<tr>
<td>TDM300-24</td>
<td>24V</td>
<td>12.5A</td>
<td>300W</td>
</tr>
<tr>
<td>TDM300-48</td>
<td>48V</td>
<td>6.25A</td>
<td>300W</td>
</tr>
</tbody>
</table>

Notes:
1. The listed P/N's are for Class I models equipped with IEC 320/C14 AC inlet. Add suffix "-C2" to order Class II models equipped with IEC 320/C18 AC inlet, e.g. use P/N TDM300-24-C2 to order 24V Class II model.
2. Add suffix "-AP" to the P/N to order units with optional 10-pin output connector.

STANDARDS & COMPLIANCE
- IEC 60601-1-2:2014 EMC & Immunity Performance
- EN 55011 Class B, conducted & radiated
- FCC, CISPR 11 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 com.
- EN 61000-4-6 Conducted immunity, 10 Vrms
- EN 61000-4-8 Magnetic field immunity, 30A/m
- EN 61000-4-11 Voltage dips, 30% reduction for 500ms, 100% reduction for 10 ms


Agency Approvals .......... UL, cUL, TUV, CE, CB, PSE
Other Compliance .......... RoHS, CEC & Energy Star Level VI, ErP Stage 2
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MECHANICAL SPECIFICATIONS

Notes:
1. Unit: mm
2. Tolerance: 0.5mm maximum, unless otherwise stated.
3. Weight: 1.6kg (3.53lbs) approx.
4. Cable length is 1,000mm for 12V output in order to meet CEC Level VI.
5. Standard output connector (8 pins): Molex Mini-Fit Jr. receptacle P/N 39-01-2080 with female terminal #5556 or equivalent, mates with Molex P/N 39-01-2086 with male terminal #5558, #5566, #5569 or equivalent.
6. Optional output connector (10 pins): Molex Mini-Fit Jr. receptacle P/N 39-01-2100 with female terminal #5556 or equivalent, mates with Molex P/N 39-28-1123 with male terminal #5558, #5566, #5569 or equivalent.
7. Contact TRUMPower for output connector and cable options.