TDM160 Series
160 Watts Medical & ITE Grade Power Adapters

FEATURES
- IEC 320/C6, C14 AC Inlets
- LED Power Indicator
- 12V to 48V Single Outputs
- 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

INPUT SPECIFICATIONS
Input Voltage Range .............. 90-264 VAC
Input Frequency .................. 50-60Hz
Input Current .................... 1.8A-0.9A max.
Inrush Current .................... 100A @ 230 VAC, at 25°C cold start
Touch Current ..................... 100 µA max.
Earth Leakage Current .......... 300 µA max.

OUTPUT SPECIFICATIONS
Output Power Ratings ............ See table
No Load Power Cons. ............. 0.15W max.
Line Regulation ................. ±1% max.
Load Regulation ................ 5% max.
Ripple and Noise* ............... 1% peak to peak max.
Over Voltage Protection ......... Set at 150% of its nominal output voltage; Latch off
Over Temp. Protection .......... Auto recovery
Short Circuit Protection ......... Shutdown; Auto recovery
Over Current Protection ......... Set at 150% of its nominal input voltage; Shutdown
Temperature Coefficient ....... ±0.04%/°C max.
Transient Response ............. 0.5 ms @ 50% load change

GENERAL SPECIFICATIONS
Power Factor ..................... 0.95 min. @ full load
Efficiency ........................ 88% min. @ 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>Maximum Current</th>
<th>Maximum Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDM160-12</td>
<td>12V</td>
<td>12.5A</td>
<td>150W</td>
</tr>
<tr>
<td>TDM160-19</td>
<td>19V</td>
<td>8.4A</td>
<td>160W</td>
</tr>
<tr>
<td>TDM160-24</td>
<td>24V</td>
<td>6.6A</td>
<td>160W</td>
</tr>
<tr>
<td>TDM160-48</td>
<td>48V</td>
<td>3.3A</td>
<td>160W</td>
</tr>
</tbody>
</table>

Note:
1) Add suffix "-4" for models equipped with IEC 320/C14 AC inlet, "-6" for C6 inlet, e.g. TDM160-12-4, TDM160-19-6, etc.

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, 30 Vrms
EN 61000-4-8 .................. Magnetic field immunity, 30A/m
EN 61000-4-11 ................ Voltage dips, 30% reduction for 500ms,
................................ 100% reduction for 10ms

Safety Standards .............. UL/IEC/EN 60601-1 (3.1 Edition),
................................ ANSI/AAMI ES 60601-1:2005
................................ CSA C22.2 No. 60601-1:2008
................................ IEC 60950-1 (2nd Edition)
Agency Approvals .............. UL, cUL, TUV, CE, CB, PSE
Other Compliance ............... RoHS, CEC & Energy Star Level VI,
................................ ErP Stage II, MEPS Level VI
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MECHANICAL SPECIFICATIONS

Notes:
1. Tolerance: 0.5mm maximum, unless otherwise stated.
2. Weight: 820g (1.81 lbs) approx.
3. Cable length: 1,200mm for 12V output, 1,500mm for 19-48V outputs.
5. Mating connector: Kycon P/N KPJX-4S-S or equivalent.
6. Contact TRUMPower for output connector options.