FEATURES
- Class I & II with IEC 320/C6, C8, C14, C18 AC Inlets
- LED Power Indicator
- 12V to 48V Single Outputs
- Overvoltage, Overcurrent & 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 .......... 100-240 VAC
Input Frequency ............. 50-60 Hz
Input Current ................. 1.6A max.
Inrush Current ............... 100A @ 230 VAC, at 25°C cold start
Touch Current ............... 100 µA max.
Earth Leakage Current ...... 300 µA max. (Class I)

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.
Overvoltage Protection .... Set at 150% of its nominal output
Over Temp. Protection ...... Set @ 110°C; Latch off
Short Circuit Protection ... Shutdown; Auto recovery
Overcurrent Protection ... Set at 150% of its nominal input
Overvoltage Protection .... Set at 150% of its nominal input
voltage; Shutdown
Temperature Coefficient ...... ±0.04%/°C max.
Transient Response .......... 0.5 ms @ 50% load change
* Measured with 20MHz bandwidth at rated line voltage and output load ranges,
with a 10uF tantalum capacitor in parallel with a 0.1uF ceramic capacitor in parallel across the output.

GENERAL SPECIFICATIONS
Power Factor .................. 0.95 typical @ full load
Efficiency ..................... 87% 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>TDM120-12</td>
<td>12V</td>
<td>9A</td>
<td>108W</td>
</tr>
<tr>
<td>TDM120-15</td>
<td>15V</td>
<td>8A</td>
<td>120W</td>
</tr>
<tr>
<td>TDM120-18</td>
<td>18V</td>
<td>6.6A</td>
<td>120W</td>
</tr>
<tr>
<td>TDM120-19</td>
<td>19V</td>
<td>6.32A</td>
<td>120W</td>
</tr>
<tr>
<td>TDM120-20</td>
<td>20V</td>
<td>6A</td>
<td>120W</td>
</tr>
<tr>
<td>TDM120-24</td>
<td>24V</td>
<td>5A</td>
<td>120W</td>
</tr>
<tr>
<td>TDM120-48</td>
<td>48V</td>
<td>2.5A</td>
<td>120W</td>
</tr>
</tbody>
</table>

STANDARDS & COMPLIANCE
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 10ms
Safety Standards ................ UL/IEC/EN 60601-1 (3.1 Edition),
ANSI/AAMI ES 60601-1:2012,
CSA C22.2 No. 60601-1:2014;
IEC 60950-1 (2nd Edition)
Agency Approvals ............ UL, cUL, TUV, CE, CB, PSE
Other Compliance ............ RoHS, CEC & Energy Star Level VI,
ErP Stage 2
TDM120 Series

120 Watts Medical & ITE Grade Power Adapters

MECHANICAL SPECIFICATIONS

Notes:
1. Tolerance: 0.5mm maximum, unless otherwise stated.
2. Weight: 560g (1.23 lbs) approx.
3. Cable length: 1,200mm for 12-15V outputs, 1,500mm for 18-48V outputs.
4. Standard output connector: Kycon P/N KPPX-4P circular DIN or equivalent (mates with KPJX-4S-S or equivalent) for 12V & 15V outputs; 5.5 x 2.5 x 9.5mm barrel connector for 18-48V outputs.
5. Contact TRUMPower for output connector options.