TPM40 Series
Medical Grade 40W Wall Mount Power Adapters

FEA TURES
- Interchangeable AC Plugs
- Class II Construction with 2 MOPP
- Meet UL/IEC/EN 60601-1 3.1 Edition Standards
- 5,000 Meters Operation Altitude
- UL, cUL, TUV & CB Approved
- Meet IP22, CEC Level VI, RoHS2

INPUT SPECIFICATIONS
- Input Voltage Range ................. 90-275 VAC
- Input Frequency ....................... 47-63 Hz
- Input Current .......................... 0.93A rms @ 100 VAC,
                     0.54A rms @ 240 VAC
- Inrush Current......................... 115A @ 100 VAC or 270A
                     @ 240 VAC, at 25°C cold start
- No Load Power Consumption... 0.1W max.
- Enclosure Leakage Current .... 100µA max. @ 240 VAC, 60 Hz

OUTPUT SPECIFICATIONS
- Output Power Ratings .............. See models list
- Total Regulation ...................... See models list
- Ripple & Noise ......................... See models list
- Overload Protection ................. Set at 110-150% of its nominal output voltage: Auto recovery
- Short Circuit Protection .......... Auto recovery
- Temperature Coefficient ........... ±0.04%/°C max.
- Transient Response ................. 4ms @ 110 VAC, full load

GENERAL SPECIFICATIONS
- Efficiency ............................ See models list
- Hold-up Time ......................... 8ms min. @ 100 VAC, full load
- Start-up Time ......................... 3 seconds max. @ full load
- Line Regulation ....................... ±1% max. @ full load
- Operating Temperature ............. 20°C to +70°C
- Derating ............................... Derate from 100% at +40°C
                     linearly to 50% at +70°C
- Storage Temperature ................. -40°C to +85°C
- Relative Humidity ..................... 0% to 95% non-condensing
- Withstand Voltage .................... 4,000 VAC input-output (2 MOPP)
- Operation Altitude ................... 5,000 meters max.
- MTBF .................................. 200K hours minimum at full load,
                     25°C ambient, calculated per MIL-HDBK-217F

STANDARDS & COMPLIANCE
- EN 60601-1-2:2015 ............ EMC & Immunity Performance
- EN 55011, CISPR11 ............... Class B, conducted & radiated
- FCC, VCCI ............................ Class B, conducted & radiated
- EN 61000-3-2 ....................... Harmonic distortion, Class A
- EN 61000-3-3 ....................... Line fluctuations & flicker
- EN 61000-4-2 .......................... ESD, ±15 KV air and ±8 KV contact
- EN 61000-4-3 ....................... Radiated immunity, 10 V/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, 6 Vrms
- EN 61000-4-8 ....................... Magnetic field immunity, 30 A/m
- EN 61000-4-11 ...................... Voltage dips,
                     30% reduction for 500ms,
                     60% reduction for 100ms,
                     >95% reduction for 10ms
- Safety Standards ................. UL/IEC/EN 60601-1 (Edition 3.1),
                     ANSI/AAMI ES 60601-1 (2012),
                     CSA C22.2 No. 60601-1 (2014);
- Agency Approvals ................. UL, cUL, TUV, CE, CB
- Other Compliance ................. RoHS2, CEC VI, IP22

MECHANICAL SPECIFICATIONS

Notes:
1. Standard output connector: 2.5 x 5.5 mm or 2.1 x 5.5 mm barrel plug
2. Standard output cable: 4-ft, AWG#14 for 5-11V output models; 4-ft, AWG#16 for 11-21V output models; 4-ft, AWG#18 for 21-48V output models.
3. Contact TRUMPower for other output cable and connector options.
## MODELS LIST

<table>
<thead>
<tr>
<th>Product No. (Main Body Only)</th>
<th>Output Voltage</th>
<th>Max. Output Current</th>
<th>Max. Output Power</th>
<th>Ripple &amp; Noise (Vp-p Max.)</th>
<th>Total Regulation</th>
<th>Efficiency (Typ.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TXM40-5</td>
<td>5V</td>
<td>6.00A</td>
<td>30W</td>
<td>100mV</td>
<td>±5%</td>
<td>85.00%</td>
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<tr>
<td>TXM40-7.5</td>
<td>7.5V</td>
<td>4.00A</td>
<td>30W</td>
<td>100mV</td>
<td>±5%</td>
<td>86.95%</td>
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<tr>
<td>TXM40-9</td>
<td>9V</td>
<td>3.89A</td>
<td>35W</td>
<td>100mV</td>
<td>±5%</td>
<td>87.35%</td>
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<tr>
<td>TXM40-12</td>
<td>12V</td>
<td>3.33A</td>
<td>40W</td>
<td>100mV</td>
<td>±5%</td>
<td>87.59%</td>
</tr>
<tr>
<td>TXM40-15</td>
<td>15V</td>
<td>2.66A</td>
<td>40W</td>
<td>120mV</td>
<td>±5%</td>
<td>87.59%</td>
</tr>
<tr>
<td>TXM40-18</td>
<td>18V</td>
<td>2.22A</td>
<td>40W</td>
<td>120mV</td>
<td>±5%</td>
<td>87.59%</td>
</tr>
<tr>
<td>TXM40-24</td>
<td>24V</td>
<td>1.66A</td>
<td>40W</td>
<td>120mV</td>
<td>±3%</td>
<td>87.59%</td>
</tr>
<tr>
<td>TXM40-27</td>
<td>27V</td>
<td>1.48A</td>
<td>40W</td>
<td>120mV</td>
<td>±3%</td>
<td>87.59%</td>
</tr>
<tr>
<td>TXM40-30</td>
<td>30V</td>
<td>1.33A</td>
<td>40W</td>
<td>120mV</td>
<td>±3%</td>
<td>87.59%</td>
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<tr>
<td>TXM40-36</td>
<td>36V</td>
<td>1.11A</td>
<td>40W</td>
<td>200mV</td>
<td>±3%</td>
<td>87.59%</td>
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<tr>
<td>TXM40-48</td>
<td>48V</td>
<td>0.83A</td>
<td>40W</td>
<td>200mV</td>
<td>±3%</td>
<td>87.59%</td>
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</tbody>
</table>

### Interchangeable AC Plugs

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Interchangeable AC Plugs</th>
</tr>
</thead>
<tbody>
<tr>
<td>TXM-IPU</td>
<td>US/China/Japan Type; Non-Polarized</td>
</tr>
<tr>
<td>TXM-IPE</td>
<td>EU Type</td>
</tr>
<tr>
<td>TXM-IPB</td>
<td>UK Type</td>
</tr>
<tr>
<td>TXM-IPA</td>
<td>Australia Type</td>
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</tbody>
</table>

**Notes:**
1. At least one AC plug is required to order with each power adapter's main body.
2. Specify the output voltage, within 5V to 48V, when ordering non-standard output models, e.g. TXM40-16.5 for 16.5V output.
3. Ripple & Noise are measured with 20MHz bandwidth at nominal line and rated output load ranges, with a 0.1µF ceramic capacitor and a 47µF electrolytic capacitor connected across the output connector.