FEATURES
• 5V to 48V Single Output Voltages
• Class II with BF Insulation
• Interchangeable & IP22 Compliant Fixed AC Plugs
• Operation Altitude up to 5,000 Meters
• Approved to IEC/EN/UL 60601-1 Ed. 3.1
• Compliant with DoE Level VI

INPUT SPECIFICATIONS
Input Voltage Range ........... 80-264 VAC
Input Frequency ............... 47-63 Hz
Input Current .................. 1A (rms) max. @ 115 VAC, 0.6A (rms) max. @ 230 VAC
Inrush Current ................. 60A max. @ 115 VAC, 120A max. @ 230 VAC, at 25°C cold start
Touch Current .................. 100 µA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS
Output Power Ratings ........... See models list
No Load Power Cons. .......... 0.1W max.
Line Regulation ................. ±1% max.
Load Regulation ................ ±5% max.
Ripple and Noise# .............. 1% Vp-p max. of output @ full load
Over Voltage Protection ...... Set @ 112-140% max.; Latch off
Over Temp. Protection ........... Latch off
Short Circuit Protection ...... Auto-recovery
Temperature Coefficient ...... ±0.04%/°C max.
Transient Response .......... Maximum excursion of 4% or better, recovering to 1% of final value within 500 µs after a 25% step load change

STANDARDS & COMPLIANCE
IEC/EN 60601-1-2 Ed. 4 .... EMC & Immunity Performance
EN 55011 ......................... Class B, conducted & radiated
FCC, VCCI ......................... 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, 9-28 V/m
EN 61000-4-4 ..................... Fast transient/burst, ±2 kV
EN 61000-4-5 ..................... Surge, ±1 kV diff.
EN 61000-4-6 ..................... Conducted immunity, 10 Vrms
EN 61000-4-8 ..................... Magnetic field immunity, 30 A/m
EN 61000-4-11 ................... Voltage dips immunity, 30% reduction for 500 ms, >95% reduction for 10 ms
Agency Approvals ............. UL, cUL, TUV, CE, CB
Other Compliance ............. RoHS, DoE Level VI, ErP Stage 2

GENERAL SPECIFICATIONS
Efficiency ...................... 86-87.5% typ. @ full load
Hold-Up Time ................... 8 ms min. @ 115 VAC
Operation Altitude .......... 5,000 meters max.
Operating Temperature ...... -20°C to +60°C
Derating ......................... Derate from 100% at +40°C linearly to 50% at +60°C
Storage Temperature .......... -40°C to +85°C
Operating Humidity ........... 10% to 90%, non-condensing
Storage Humidity .............. 10% to 90%, non-condensing
Withstand Voltage .......... 4,000 VAC, input to output (2 MOPP)
MTBF ......................... 300,000 hours minimum at full load, 25°C ambient, calculated per MIL-HDBK-217F

MODELS LIST

<table>
<thead>
<tr>
<th>Product No. (1)</th>
<th>Output Voltage</th>
<th>Maximum Output Current</th>
<th>Maximum Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM30W-5-X</td>
<td>5V</td>
<td>4A</td>
<td>20W</td>
</tr>
<tr>
<td>TM30W-7.5-X</td>
<td>7.5V</td>
<td>3A</td>
<td>22.5W</td>
</tr>
<tr>
<td>TM30W-9-X</td>
<td>9V</td>
<td>3A</td>
<td>27W</td>
</tr>
<tr>
<td>TM30W-10-X</td>
<td>10V</td>
<td>2.7A</td>
<td>27W</td>
</tr>
<tr>
<td>TM30W-12-X</td>
<td>12V</td>
<td>2.5A</td>
<td>30W</td>
</tr>
<tr>
<td>TM30W-15-X</td>
<td>15V</td>
<td>2A</td>
<td>30W</td>
</tr>
<tr>
<td>TM30W-18-X</td>
<td>18V</td>
<td>1.67A</td>
<td>30W</td>
</tr>
<tr>
<td>TM30W-24-X</td>
<td>24V</td>
<td>1.25A</td>
<td>30W</td>
</tr>
<tr>
<td>TM30W-30-X</td>
<td>30V</td>
<td>1A</td>
<td>30W</td>
</tr>
<tr>
<td>TM30W-48-X</td>
<td>48V</td>
<td>0.63A</td>
<td>30W</td>
</tr>
</tbody>
</table>

Note (1): X = AC plug code. See the tables and drawings below for details.

X Fixed Wall Mount Plug Part No. Interchangeable Plug
U US/China Plug TM-IPU US/China Plug
E EU Plug TM-IPA Australian Plug
I Main Body only (for Interchangeable plugs) TM-IP-E EU Plug
TM-IP-B British Plug

Ordering Information:
1. Specify the AC plug code when ordering, e.g. TM30W-5-U, TM30W-12-I, etc.
2. For interchangeable plug orders, at least one interchangeable plug must be ordered together with the “main body” (X=I), e.g. TM30W-5-I for 5V output main body, TM-IPA for EU type interchangeable plug, etc.

* Measured with 20MHz bandwidth at nominal line voltage and full load, with a 47µF low ESR electrolytic capacitor in parallel with a 0.1µF multilayer capacitor in parallel across the output.

TM30W Series
20-30W Medical Grade AC/DC Power Adapters
Tumbler Technologies + TRUMPower
3350 Scott Blvd., Building 13 • Santa Clara, California 95054, USA • 408-988-6616 • sales@trumpower.com • www.TRUMPower.com
MECHANICAL SPECIFICATIONS

FIXED US PLUG MODELS

FIXED EU PLUG MODELS

INTERCHANGEABLE PLUG MODELS

Notes:
1. Unit: inches [mm]
2. Tolerance: 0.02 [0.5mm] max. unless otherwise stated
3. Weight: 168 grams (0.37 lbs.) approx.
4. Standard output connector: 5.5 x 2.5 x 9.5mm right-angle barrel connector, center positive.
5. Contact us for other output connector options.