TMPC-220-1U
1U 220W Medical Grade ATX PC Power Supply

FEATURES
- Complies with Flex ATX & ATX12V Standards
- Meets 1U Height Constraints
- Active PFC Meets EN 61000-3-2
- 80Plus Bronze High Efficiency
- Remote On/Off Control
- High Reliability

INPUT SPECIFICATIONS
Input Voltage Range.................. 90~264 VAC
Input Frequency...................... 47~63Hz
Input Current ......................... 4A max. @ 115 VAC, 60Hz
Inrush Current ...................... 50A @ 115 VAC, 80A @ 230 VAC, at 25°C cold start
Input Frequency ...................... 47~63Hz
Earth Leakage Current ................ 154µA Typ. @ 264 VAC, 60Hz

OUTPUT SPECIFICATIONS
Output Power Ratings .................. See Rating Chart
Load & Line Regulation ............... See Rating Chart
Ripple & Noise ......................... See Rating Chart
Hold-up Time ......................... 17ms min. at full load and nominal input voltage
Over Power Protection ............... 150% max.
Overcurrent Protection .............. On +3.3V, +5V & +12V
Overvoltage Protection, +3.3V ...... 3.7~4.5V
+5V ...... 5.7~6.5V
+12V ...... 13.3~15.5V
Power Turn-on Signal Delay .......... 100~500ms
Power Fail Signal Delay ............. 1ms min.
Temperature Coefficient ............. 0.01%/°C max.

OUTPUT VOLTAGE & CURRENT RATING CHART

<table>
<thead>
<tr>
<th>Output Voltage</th>
<th>Minimum Load</th>
<th>*Maximum Load</th>
<th>Load Regulation</th>
<th>Line Regulation</th>
<th>Ripple &amp; Noise P-P (Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>+3.3V</td>
<td>0.3A</td>
<td>9A</td>
<td>±5%</td>
<td>±1%</td>
<td>50mV</td>
</tr>
<tr>
<td>+5V</td>
<td>0.5A</td>
<td>12A</td>
<td>±5%</td>
<td>±1%</td>
<td>50mV</td>
</tr>
<tr>
<td>+12V</td>
<td>1A</td>
<td>14A</td>
<td>±5%</td>
<td>±1%</td>
<td>120mV</td>
</tr>
<tr>
<td>-12V</td>
<td>0A</td>
<td>0.3A</td>
<td>±10%</td>
<td>±2%</td>
<td>120mV</td>
</tr>
<tr>
<td>-5V</td>
<td>0A</td>
<td>0.3A</td>
<td>±10%</td>
<td>±2%</td>
<td>100mV</td>
</tr>
<tr>
<td>+5Vsb</td>
<td>0A</td>
<td>2.5A</td>
<td>±5%</td>
<td>±1%</td>
<td>50mV</td>
</tr>
</tbody>
</table>

*Maximum load for +3.3V and +5V is 60W with overall output limited to 220W.
**+3.3V, +5V and +12V will have ±10% regulation with all loads removed.

GENERAL SPECIFICATIONS
Efficiency........................... 82% minimum at full load
Withstand Voltage ................. 1,500 VAC, input to ground
Operating Temperature .......... 0°C to +50°C, no derating
Storage Temperature .......... -20°C to +80°C
Relative Humidity ............. 85% to 95% non-condensing
MTBF .................................. 176K hours minimum at full load,
Temperature Coefficient ........ 0.01%/°C max.
Dimensions ......................... 81.5*40.5*190 mms

STANDARDS & COMPLIANCES
EMC .................................. EN 60601-1-2
Emissions ......................... EN 55011, CISPR 11, FCC
Class B conducted & radiated
Immunity ................................ EN 61000-3-2, EN 61000-4-2,
EN 61000-4-3, EN 61000-4-5,
EN 61000-4-11
Safety Standards ................. IEC/EN/UL 60601-1, 3rd Edition
Agency Approvals ............... UL, cUL, TUV, CB, CE
Other Standards ............... RoHS, EuP
MECHANICAL SPECIFICATIONS

Notes:
Unit: mm
Customized output cable sets available upon request.