TIPC300B
300W PS/2 ATX IPC Power Supply

FEATURES

- PS/2 ATX Form Factor
- Complies with ATX12V Standard
- Meets 80PLUS Bronze Efficiency Level
- Active PFC meets EN 61000-3-2 Standard
- Remote ON/OFF Function
- Approved to UL/IEC/EN 60950-1 2nd Edition

INPUT SPECIFICATIONS

- Input Voltage Range ............... 90-264 VAC
- Input Frequency ..................... 47-63Hz
- Input Current ....................... 7A rms max. @ 115 VAC
- Inrush Current ..................... 3.5A rms max. @ 230 VAC
- Inrush Current ..................... 80A max. @ 115 VAC,
- 160A max. @ 230 VAC,
- at 25°C cold start
- Earth Leakage Current ........... 350µA max. @ 264 VAC, 63Hz

OUTPUT SPECIFICATIONS

- Output Power Ratings ............. See rating chart
- Load Regulation .................... See rating chart
- Ripple & Noise* ..................... See rating chart
- Hold-up Time ....................... 15ms min. @ 115/230 VAC
- Rise Time ............................ 20ms max. @ 115/230 VAC
- Over Voltage Protection, +3.3V .. 3.7-4.8V
  +5V .... 5.7-7V
  +12V ... 13.3-16V
- Over Current Protection, +3.3V.. 25-50A
  +5V .... 25-45A
  +12V ... 20-28A for each rail
- Short Circuit Protection .......... Shut down, Latch off on all
- outputs
- Temperature Coefficient ........... ±0.04%/°C max.

GENERAL SPECIFICATIONS

- Efficiency ......................... 85% typ. @ full load
- Operating Temperature ...... 0°C to +50°C
- Storage Temperature ........... -20°C to +80°C
- Relative Humidity ............... 5% to 95% non-condensing
- Withstand Voltage .............. 1,800 VAC, input-ground
- MTBF ................................ 150K hours minimum at full load &
- at 25°C ambient, calculated per
- MIL-HDBK-217F

STANDARDS & COMPLIANCES

- EMI/EMC ......................... FCC & CISPR 22, Class B conducted
- Safety Standards ............... UL/IEC/EN 60950-1 2nd Edition
- Agency Approvals .............. UL, cUL, TUV, CB, CE, CCC
- Other Compliance .............. 80PLUS, RoHS

MECHANICAL SPECIFICATIONS

- Notes:
  1. Dimensions in mm.
  2. Power switch is optional.
  3. Customized cable sets available upon request.

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>Ripple &amp; Noise VP-P Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>+3.3V</td>
<td>0.5A</td>
<td>18A</td>
<td>±5%</td>
<td>50mV</td>
</tr>
<tr>
<td>+5V</td>
<td>0.5A</td>
<td>16A</td>
<td>±5%</td>
<td>50mV</td>
</tr>
<tr>
<td>+12V1</td>
<td>0.5A</td>
<td>17A</td>
<td>±5%</td>
<td>120mV</td>
</tr>
<tr>
<td>+12V2</td>
<td>0.5A</td>
<td>17A</td>
<td>±5%</td>
<td>120mV</td>
</tr>
<tr>
<td>-12V</td>
<td>0A</td>
<td>0.5A</td>
<td>±10%</td>
<td>120mV</td>
</tr>
<tr>
<td>+5Vsb</td>
<td>0A</td>
<td>3A (3.5A Peak)</td>
<td>±5%</td>
<td>50mV</td>
</tr>
<tr>
<td>+5V</td>
<td>0A</td>
<td>0.3A</td>
<td>±10%</td>
<td>100mV</td>
</tr>
</tbody>
</table>

* Measured with 20MHz bandwidth at rated line voltage and output load ranges,
  with a 10µF tantalum capacitor in parallel with a 0.1µF ceramic disk capacitor
  across the output connector.

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