TIPC350B
350W 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: 80A max. @ 115 VAC, 160A max. @ 230 VAC, at 25°C cold start
- Earth Leakage Current: 350µA max. @ 264 VAC, 63Hz

**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 & 25°C ambient, calculated per MIL-HDBK-217F

**STANDARDS & COMPLIANCES**
- EMI/EMC: FCC & CISPR 22, Class B conducted
- FCC & EN 55022, Class B radiated
- Safety Standards: UL/IEC/EN 60950-1 2nd Edition
- Agency Approvals: UL, cUL, TUV, CB, CE, CCC
- Other Compliance: 80PLUS, RoHS

**MECHANICAL SPECIFICATIONS**

**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.

* 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.

**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>21A</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</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>

* The overall output power is 350W maximum.
* The total output power for +3.3V & +5V is 105W maximum.
* -5V output is optional.