FEATURES
- Complies with Flex ATX Standard
- Meets 80PLUS Gold Efficiency Level
- Active PFC meets EN 61000-3-2 Standard
- Remote ON/OFF Function
- 5,000 Meters Operating Altitude
- Approved to IEC/EN/UL 60950-1 2nd Edition

INPUT SPECIFICATIONS
Input Voltage Range ................... 90-264 VAC
Input Frequency .......................... 47-63Hz
Input Current ............................... 6A rms max. @ 115 VAC
3A rms max. @ 230 VAC
Earth Leakage Current ............... 350µA max. @ 264 VAC, 50Hz

OUTPUT SPECIFICATIONS
Output Power Ratings ................ See rating chart
Load Regulation .......................... See rating chart
Ripple & Noise* .......................... See rating chart
Hold-up Time ............................. 16ms min. @ 115/230VAC
Rise Time ................................. 20ms max. @ 115/230VAC
Over Voltage Protection, +3.3V ... 3.5-4.8V
+5V ...... 5.5-7V
+12V ... 13.4-16V
Over Current Protection, +3.3V .. 50mV p-p
+5V ...... 50mV p-p
+12V ... 120mV p-p
-12V.... 120mV p-p
+5Vsb . 50mV p-p
-5V ..... 100mV p-p
Short Circuit Protection .............. On all outputs, Load of less than 0.1 ohm
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>0.3A</td>
<td>16A</td>
<td>±5%</td>
<td>50mV</td>
</tr>
<tr>
<td>+5V</td>
<td>0.3A</td>
<td>16A</td>
<td>±5%</td>
<td>50mV</td>
</tr>
<tr>
<td>+12V1</td>
<td>0.5A</td>
<td>18A</td>
<td>±5%</td>
<td>120mV</td>
</tr>
<tr>
<td>+12V2</td>
<td>0.5A</td>
<td>18A</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>0.2A</td>
<td>±10%</td>
<td>100mV</td>
</tr>
</tbody>
</table>

* The overall output power is 400W maximum.
* The total output power for +3.3V & +5V is 120W maximum.
* -5V output is optional.

GENERAL SPECIFICATIONS
Efficiency ....................... 90% min. @ full load
Operating Altitude .......... 5,000 meters max.
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
Safety Standards .......... UL/IEC/EN 60950-1 2nd Edition
Agency Approvals .......... UL, cUL, TUV, CB, CE, CCC
Other Compliance .......... 80PLUS, RoHS, EuP Lot 6:2013

MECHANICAL SPECIFICATIONS

Notes:
1. Dimensions in mm.
2. Customized cable set available upon request.

TIPC400-FXG_2016-08-05