FEATURES
• PS/2 ATX Form Factor
• Meets ATX12V Standards
• 80 Plus Bronze Efficiency Level
• Meets IEC/EN 60601-1-2 4th Edition Medical EMC
• Approved to IEC/EN/UL 60601-1 3.1 Edition
• CCC & KC Certified

INPUT SPECIFICATIONS
Input Voltage Range .......... 90-264 VAC
Input Frequency .................. 47-63Hz
Input Current ........................ 10A rms max. @ 115 VAC
.................................. 5A rms max. @ 240 VAC
Inrush Current ...................... 50A @ 115 VAC, 100A @ 230 VAC, no load
Earth Leakage Current ........ 100µA max. @ 115 VAC, 60Hz
.................................. 150µA max. @ 264 VAC, 50Hz

OUTPUT SPECIFICATIONS
Output Power Ratings ............... See rating chart
Load Regulation .......................... ±0.5% max. at full load
Line Regulation ......................... See rating chart
Ripple & Noise* .......................... See rating chart
Hold-up Time .......................... 13ms min. @ 110/230 VAC
Switching Frequency .................. 85KHz typ.
Overvoltage Protection, +3.3V ... 3.7~4.8V
.................................. +5V ...... 5.7~7.0V
.................................. +12V .... 13.4~16.0V
Overcurrent Protection, +3.3V ... 38~48A
.................................. +5V ...... 35~50A
.................................. +12V .... 20~28A
Short-Circuit Protection .............. On +3.3V, +5V & +12V outputs
Temperature Coefficient .............. ±0.0% to 0°C max.

* Measured with 20MHz bandwidth at rated line voltage and output load ranges, with a 47µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor in parallel across the output.

GENERAL SPECIFICATIONS
Efficiency......................... 82% min. at full load
Operating Temperature ..... 0°C to +50°C
Derating .......................... Derate from 100% @ +50°C linearly to 50% @ +70°C
Storage Temperature ........ -20°C to +80°C
Relative Humidity ............... 5% to 95% non-condensing
Withstand Voltage .............. 1500 VAC from input to ground
Operating Altitude .............. 5,000 meters max.
MTBF .......................... 146K hours minimum at full load & 25°C ambient, calculated per MIL-HDBK-217F

STANDARDS & COMPLIANCES
IEC/EN 60601-1-2: 2014 ... EMC & Immunity Performance
EN 55011 / EN 55022 ... Conducted & Radiated
FCC / VCCI ... Conducted & Radiated
EN 61000-3-2 ... Harmonic distortion, Class A
EN 61000-3-3 ... Line fluctuations & flicker
EN 61000-4-2 ... ESD, ±15 KV air and ±8 KV contact
EN 61000-4-3 ... Radiated immunity, 3 V/m
EN 61000-4-4 ... Fast transient/burst, ±2 KV
EN 61000-4-5 ... Surge, ±1 KV diff., ±2 KV com.
EN 61000-4-6 ... Conducted immunity, 6 Vrms
EN 61000-4-8 ... Magnetic field immunity, 30 A/m
EN 61000-4-11 ... Voltage dip immunity, 30% reduction for 500ms, 60% reduction for 100ms and >95% reduction for 10ms
Safety Standards ............... UL/IEC/EN 60601-1 (Edition 1.1),
.................................. ANSI/AAMI ES 60601-1 (2012),
.................................. CAN/CSA C22.2 No. 60601-1 (2014);
.................................. IEC 60950-1 (2nd Edition)
Agency Approvals ............... UL, cUL, TUV, CE, CB, CCC, KC
Other Compliance ............... RoHS, 80PLUS

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>24A</td>
<td>±5%</td>
<td>50mV</td>
</tr>
<tr>
<td>+5V</td>
<td>0.5A</td>
<td>30A</td>
<td>±5%</td>
<td>50mV</td>
</tr>
<tr>
<td>+12V1</td>
<td>0.5A</td>
<td>16A</td>
<td>±5%</td>
<td>120mV</td>
</tr>
<tr>
<td>+12V2</td>
<td>0.5A</td>
<td>16A</td>
<td>±5%</td>
<td>120mV</td>
</tr>
<tr>
<td>+12V3</td>
<td>0.5A</td>
<td>16A</td>
<td>±5%</td>
<td>120mV</td>
</tr>
<tr>
<td>+12V4</td>
<td>0.5A</td>
<td>16A</td>
<td>±5%</td>
<td>120mV</td>
</tr>
<tr>
<td>-12V</td>
<td>0.05A</td>
<td>0.5A</td>
<td>±10%</td>
<td>120mV</td>
</tr>
<tr>
<td>+5Vsb</td>
<td>0.1A</td>
<td>3.5A</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 700W maximum.
* The total output power for +3.3V & +5V is 180W maximum.
* The total output current for +12V1, +12V2, +12V3 & +12V4 is 50A maximum.
MECHANICAL SPECIFICATIONS

*Custom output cable sets available

TYPICAL OUTPUT CABLESET

AIR FLOW

Bar Code