FEATURES
- Latest Medical 60601-1 & ITE 62368-1 Dual Approvals
- Approved to IEC/EN 60601-1-2 4th Edition Medical EMC
- Complies with ATX12V 2.53 Standards
- 5,000 Meters Operating Altitude
- 80PLUS GOLD Efficiency

INPUT SPECIFICATIONS
Input Voltage Range ............ 90-264 VAC
Input Frequency ............... 47-63Hz
Input Current .................. 8A rms max. @ 115 VAC
................................. 4A rms max. @ 230 VAC
Inrush Current ................. 50A @ 115 VAC, 100A @ 230 VAC,
at 25°C cold start
Earth Leakage Current ......... 200µA max. @ 264 VAC, 63Hz

OUTPUT SPECIFICATIONS
Output Power Ratings ........... See rating chart
Load Regulation ................. See rating chart
Line Regulation .................. ±0.5% max. at full load
Ripple & Noise* ................... See rating chart
Hold-up Time .................... 13ms min. @ 115/230 VAC
Switching Frequency ........... 67 kHz
Over Voltage Protection ....... 3.7-4.8V for +3.3V
................................. 5.7-7.0V for +5V
................................. 13.4-16.0V for +12V
Over Current Protection ...... 40-60A for +3.3V
................................. 40-60A for +5V
................................. 40-55A for +12V
Short-Circuit Protection ...... Shutdown, Latch off on +3.3V,
................................. +5V & +12V outputs
Temperature Coefficient .......... ±0.04%/°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.

OUTPUT VOLTAGE & CURRENT RATING CHART

<table>
<thead>
<tr>
<th>Output Voltage</th>
<th>Minimum Load</th>
<th>Maximum Load</th>
<th>Peak Load</th>
<th>Load Regulation</th>
<th>Ripple &amp; Noise</th>
</tr>
</thead>
<tbody>
<tr>
<td>+5V</td>
<td>0A</td>
<td>30A</td>
<td>±5%</td>
<td>50mV</td>
<td></td>
</tr>
<tr>
<td>+3.3V</td>
<td>0A</td>
<td>24A</td>
<td>±5%</td>
<td>50mV</td>
<td></td>
</tr>
<tr>
<td>+12V</td>
<td>0.1A</td>
<td>30A</td>
<td>35A</td>
<td>±5%</td>
<td>120mV</td>
</tr>
<tr>
<td>+12V</td>
<td>0.2A</td>
<td>30A</td>
<td>35A</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>
<td></td>
</tr>
<tr>
<td>+5Vsb</td>
<td>0.05A</td>
<td>3A</td>
<td>±5%</td>
<td>50mV</td>
<td></td>
</tr>
<tr>
<td>-5V</td>
<td>0A</td>
<td>0.2A</td>
<td>±10%</td>
<td>100mV</td>
<td></td>
</tr>
</tbody>
</table>

* The overall output power is 700W maximum.
* The total output peak load is 780W < 10 ms.
* The total output power for +3.3V & +5V is 150W maximum.
* The total output current for +12V is 36A maximum.

GENERAL SPECIFICATIONS
Efficiency ....................... 87% 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
Operating Humidity .......... 5% to 85% non-condensing
Storage Humidity ............ 5% to 95% non-condensing
Withstand Voltage .......... 4,000 VAC input to output (2 MOPP)
................................. 1,500 VAC input to ground (1 MOPP)
................................. 1,500 VAC output to ground
Operating Altitude ........... 5,000 meters max.
MTBF ............................ 180K hours minimum at full load &
................................. 25°C ambient, calculated per
................................. MIL-HDBK-217F

STANDARDS & COMPLIANCE
IEC/EN 60601-1-2, 4th Ed. . EMC & Immunity Performance
EN 55011 / EN 55022 ........ Class B, conducted & radiated
FCC / VCCI ...................... Class B, 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 10ms
................................. and >95% reduction for 10ms
Safety Standards ............. IEC/EN/UL 60601-1 (Edition 3.1),
................................. ANSI/AAMI ES 60601-1 (2012),
................................. CAN/CSA C22.2 No. 60601-1:14;
................................. IEC 62368-1 (3rd Edition)
Agency Approvals ............. UL, cUL, TUV, CE, CB
Other Compliance ............. RoHS, 80PLUS GOLD
MECHANICAL SPECIFICATIONS

Notes:
1. Unit: mm [inch]
2. Tolerance: .XX=±0.5 [0.02]; .XXX=±0.25 [0.01] max., unless otherwise stated.
3. Weight: 2.25 kg approxi.
4. Custom output cablesets available