**FEATURES**
- 5" x 3" x 1.5" Footprint
- 12V/24V/48V Output with 5V/2A Standby Power
- 2 X MOPP
- On/off Remote Control
- Medical & ITE Dual Approvals

**INPUT SPECIFICATIONS**
- Input Voltage Range ............ 90-264 VAC
- Input Frequency .................. 47-63Hz
- Power Factor ..................... 0.9 min.
- Input Current ................. 2.5A rms max. @ full load
- Inrush Current ............... 100A @ full load, at 25°C cold start
- Earth Leakage Current ...... 100µA max. @ 264 VAC, 63Hz
- No Load Power Cons. .......... 0.5W max.

**OUTPUT SPECIFICATIONS**
- Output Power Ratings ........ See table
- Output Voltage ................. See table
- Load Regulation ................ ±5% typical
- Ripple and Noise* ............... 1% Vp-p max. for main output
- Over Voltage Protection ...... Shut down
- Over Current Protection ...... Shut down, Auto-recovery
- Short Circuit Protection ...... Shut down, Auto-recovery
- Temperature Coefficient ...... ±0.04%/°C max.
- Transient Response ............ 0.5ms for 50% load change, typ.
- Standby Power ................ 5V/2A
- Fan Power .................. 12V/1A or 24V/0.5A max.

*Peak to peak with 20MHz bandwidth and a 47µF low ESR electrolytic capacitor in parallel with a 0.1µF multilayer capacitor at nominal line voltage and full load.

**GENERAL SPECIFICATIONS**
- Efficiency ...................... 90% min. @ full load
- Hold-up Time ................. 10ms min. @ full load
- Operating Temperature ....... 0°C to +40°C
- Storage Temperature .......... -20°C to +80°C
- Operating Humidity .......... 20% to 80% non-condensing
- Storage Humidity ............. 10% to 90% non-condensing
- Withstand Voltage ........... 4,000 VAC, input-output (2 MOPP)
- MTBF .......................... 300K hours minimum at full load, 25°C ambient, calculated per Telcordia SR-332

**MODELS LIST**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Voltage</th>
<th>@Convection Power</th>
<th>@11 CFM Forced Air Power</th>
<th>Ripple &amp; Noise*</th>
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</thead>
<tbody>
<tr>
<td>TTM210-12</td>
<td>12V</td>
<td>160W</td>
<td>16.7A</td>
<td>120mV</td>
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<td>5Vsb</td>
<td>2A</td>
<td>2A</td>
<td>100mV</td>
</tr>
<tr>
<td>TTM210-24</td>
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<td>160W</td>
<td>8.3A</td>
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<tr>
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<td>5Vsb</td>
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<td>2A</td>
<td>100mV</td>
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<tr>
<td>TTM210-48</td>
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<td>4.17A</td>
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<td>2A</td>
<td>100mV</td>
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</table>

**STANDARDS & COMPLIANCE**
- IEC/EN 60601-1-2:2014 .... EMC & Immunity Performance
- EN 55011 ...................... Class B, conducted & radiated
- FCC, CISPR11 .................. Class B, conducted & radiated
- EN61000-3-2 .................. Harmonic distortion, Class A & D
- EN61000-3-3 .................. Line flicker
- EN61000-4-2 .................. ESD, ±15 KV air and ±8 KV contact
- EN61000-4-3 .................. Radiated immunity, 3V/m
- EN61000-4-4 .................. Fast transient/burst, ±2 KV
- EN61000-4-5 .................. Surge, ±1 KV diff., ±2 KV com.
- EN61000-4-6 .................. Conducted immunity, 3 Vrms
- EN61000-4-8 .................. Magnetic field immunity, 3A/m
- EN61000-4-11 ................. Voltage dip immunity,
- Safety Standards .............. IEC/EN 60601-1 (Edition 3.1)
- ANSI/AAMI ES 60601-1:2012
- CSA C22.2 No. 60601-1:2014
- IEC/EN/UL 62368-1
- Agency Approvals .......... UL, cUL, TUV, CB, CE
- Other Compliance .......... RoHS, CE, DoE level VI, ErP Stage 2
MECHANICAL SPECIFICATIONS

NOTES:
1. Dimensions: mm [inches]
2. Tolerance: ± 0.1 mm unless otherwise stated
3. CN1: JST P/N B2P3-VH 2 pins wafer 7.92 mm pitch; Mating connector: JST P/N VAR-2
4. CN2: JST P/N B2B-PH-K-S 2 pins wafer 2.0 mm pitch; Mating connector: JST P/N JST PHR-2
5. CN3 for 12V/24V output: JST P/N B6P-VH 6 pins wafer 3.96 mm pitch; Mating connector: JST P/N VHR-6N
6. CN3 for 48V output: JST P/N B4P-VH 4 pins wafer 3.96 mm pitch; Mating connector: JST P/N VHR-4N
7. CN3S: JST P/N S3B-XH-A 3 pins wafer 2.5mm pitch; Mating connector: JST P/N JST XHP-3
8. Weight: 360g (0.79 lbs.) approx.

<table>
<thead>
<tr>
<th>CONNECTOR</th>
<th>PIN</th>
<th>FUNCTION (12V, 24V Output)</th>
<th>FUNCTION (48V Output)</th>
</tr>
</thead>
<tbody>
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<td>CN1</td>
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<td>NEUTRAL</td>
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<td>2</td>
<td>NC</td>
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<td></td>
<td>3</td>
<td>LINE</td>
<td>LINE</td>
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<tr>
<td>CN2</td>
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<td>*FAN POWER</td>
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<td>VO+</td>
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</tr>
<tr>
<td></td>
<td>3</td>
<td>REMOTE ON/OFF</td>
<td>REMOTE ON/OFF</td>
</tr>
</tbody>
</table>

*Fan Power: +12VDC/1A for 12V and 48V output, +24VDC/0.5A for 24V output