FEATURES

- 8” x 5” x 1.6” U-Bracket
- Convection Cooled 612W Output
- 5V Standby Power & Remote On/Off
- -20°C to +70°C Operation
- Medical & ITE Safety Approvals

INPUT SPECIFICATIONS

Input Voltage Range .............. 100-240 VAC
Input Frequency ................... 50-60Hz
Input Current .......................... 7A rms max. @ full load
Power Factor .......................... 0.9 min.
Inrush Current ....................... 60A @ full load, at 25°C cold start
Earth Leakage Current .......... 100µA max. @ 264 VAC, 63Hz
No Load Power Cons. ........... 0.21W max.

OUTPUT SPECIFICATIONS

Output Power Ratings ........... See table
Output Voltage ....................... See table
Load Regulation.................... ±5% typical
Over Voltage Protection .... Shut down
Over Current Protection ........ Shut down, Auto-recovery
Short Circuit Protection .... Shut down, Auto-recovery
Remote On/Off ...................... On: open or short to 5V
Off: short to DC return
Temperature Coefficient ...... ±0.04%/°C max.
Transient Response ........... 0.5ms for 50% load change, typ.

GENERAL SPECIFICATIONS

Efficiency ......................... 90% min. @ full load
Hold-up Time ..................... 10ms min. @ full load
Load Regulation .................... ±5% max. @ full load
Operating Altitude .............. 5,000 meters max.
Operating Temperature ....... -20°C to +70°C
Derating ............................ Derate from 100% @ +50°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)
                          1,500 VAC, input-ground
                          1,500 VAC, output-ground
MTBF .................................. 300K hours minimum at full load,
                          25°C ambient, calculated per
Telcodia SR-332

MODELS LIST

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Output Power</th>
<th>Output Voltage</th>
<th>Current</th>
<th>Ripple &amp; Noise</th>
</tr>
</thead>
<tbody>
<tr>
<td>TTM600-12</td>
<td>612W</td>
<td>12V</td>
<td>50A</td>
<td>180mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5Vsb</td>
<td>1A</td>
<td>50mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12V</td>
<td>0.6A</td>
<td>120mV</td>
</tr>
<tr>
<td>TTM600-24</td>
<td>612W</td>
<td>24V</td>
<td>25</td>
<td>240mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5Vsb</td>
<td>1A</td>
<td>50mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12V</td>
<td>0.6A</td>
<td>120mV</td>
</tr>
<tr>
<td>TTM600-36</td>
<td>612W</td>
<td>36V</td>
<td>16.6A</td>
<td>360mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5Vsb</td>
<td>1A</td>
<td>50mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12V</td>
<td>0.6A</td>
<td>120mV</td>
</tr>
<tr>
<td>TTM600-48</td>
<td>612W</td>
<td>48V</td>
<td>12.5A</td>
<td>480mV</td>
</tr>
<tr>
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<td></td>
<td>5Vsb</td>
<td>1A</td>
<td>50mV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12V</td>
<td>0.6A</td>
<td>120mV</td>
</tr>
</tbody>
</table>

*Max. Vp-p measured at output connector terminals, 20MHz bandwidth with a 47µF low ESR electrolytic capacitor in parallel with a 0.1µF ceramic capacitor at nominal line voltage, full load.

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,
                              30% reduction for 500ms,
                              60% reduction for 100ms,
                              >95% reduction for 10ms
                              ANSI/AAMI ES 60601-1:2012
                              CSA C22.2 No. 60601-1:2014
                              UL/IEC/EN 60950-1 (2nd Edition)
                              CSA C22.2 No. 60950-1 (2nd Edition)
Agency Approvals ............ UL, cUL, CB, FCC, CE
Other Compliance ............ RoHS
**MECHANICAL SPECIFICATIONS**

**CONNECTOR** | **PIN** | **FUNCTION (12V)** | **FUNCTION (24V/36V/48V)**
--- | --- | --- | ---
CN1 | 1 | LINE | LINE | 3 | GROUND | GROUND
2 | NEUTRAL | NEUTRAL | 3 | COMMON RTN | COMMON RTN
3 | GROUND | GROUND | 3 | COMMON RTN | COMMON RTN
CN2 | 4 | VO+ | VO+ | 4 | VO+ | VO+ | 6 | VO+ | N/A
CN3 | 1 | 12V0.6A AUX. | 12V0.6A AUX. | 2 | COMMON RTN | COMMON RTN
CN202 | 1 | 5V/1A STANDBY | 5V/1A STANDBY | 2 | COMMON RTN | COMMON RTN
3 | REMOTE ON/OFF | REMOTE ON/OFF

**NOTES:**
1. Dimensions: mm
2. CN1: 3 pin barrier terminal blocks 9.5mm pitch with M3.5 screws
3. CN2: 6 pin (12V model) or 4 pin (24V/36V/48V models) barrier terminal blocks, 9.5mm pitch with M3.5 screws
4. CN3: 2 pin wafer 2mm pitch mating with JST P/N PHR-2
5. CN202: 3 pin wafer 2.5mm pitch mating with JST P/N XHP-3
6. Weight: 1,100 grams approx.