FEATURES
- Fanless, Convection Cooled
- Suitable for BF Rated Applications
- GaN FET Based Compact Design
- Efficiency Up to 95%
- Touch Current Less Than 100 µA
- Latest ITE 62368-1 and Medical 60601-1 Approvals

INPUT SPECIFICATIONS
- Input Voltage Range .......... 100 ~ 264 VAC
- Input Frequency ............... 50 ~ 60 Hz
- Input Current .................. 5.3A rms max. @ 115 VAC
- Inrush Current .................. 150A @ 240 VAC, at 25°C cold start
- Touch Current .................. <100 µA max. @ 264 VAC
- Earth Leakage Current ........ <380 µA max

OUTPUT SPECIFICATIONS
- Output Power Ratings ........ See table
- No Load Power Cons. .......... 0.5W max.
- Line Regulation ................ ±1% max.
- Load Regulation ............... ±5% max.
- Ripple and Noise* .......... 1% Vp-p max. of the output voltage
- Over Voltage Protection .... Set at 150% of its nominal output voltage; Latch off
- Over Temp. Protection ...... Shut down
- Short Circuit Protection .... Auto-recovery
- Over Current Protection ...... Set at 150% of its nominal output current; Auto-recovery
- Temperature Coefficient .... ±0.04%/°C max.
- Transient Response ......... 0.5 ms @ 50% load change

GENERAL SPECIFICATIONS
- Power Factor ............... 0.90 typical @ full load
- Efficiency ..................... 95% typical @ full load
- Switching Frequency ........ 100 kHz
- Hold-up Time ................. 10 ms @ full load
- Operating Altitude .......... 5,000m max.
- Operating Temperature ...... -20°C to +60°C
- Derating ...................... Derate from 100% at +40°C linearly to 50% at +60°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)
- Grounding Voltage ........... 1,500 VAC, input-ground (1 MOPP)
- Over Voltage Protection .... Set at 150% of its nominal output voltage; Latch off
- Over Temp. Protection ...... Shut down
- Short Circuit Protection .... Auto-recovery
- Over Current Protection ...... Set at 150% of its nominal output current; Auto-recovery
- Temperature Coefficient .... ±0.04%/°C max.
- Transient Response ......... 0.5 ms @ 50% load change

STANDARDS & COMPLIANCE
- IEC 60601-1-2:2014 ......... EMC & Immunity Performance
- EN 55011 ........................ Class B, conducted & radiated
- FCC, CISPR 11 ..................... Class B, conducted & radiated
- EN 61000-3-2 ..................... Harmonic distortion, Class A & D
- EN 61000-3-3 ..................... Line flicker
- EN 61000-4-2 ..................... ESD, ±15 KV air and ±8 KV contact
- EN 61000-4-3 ..................... Radiated immunity, 10V/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, 10 Vrms
- EN 61000-4-8 ..................... Magnetic field immunity, 30A/m
- EN 61000-4-11 ................. Voltage dips, 30% reduction for 500ms, 100% reduction for 10 ms

MODELS LIST

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Output Voltage</th>
<th>Output Current</th>
<th>Max. Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>TGM450-12</td>
<td>12V</td>
<td>33.34A</td>
<td>400W</td>
</tr>
<tr>
<td>TGM450-24</td>
<td>24V</td>
<td>18.75A</td>
<td>450W</td>
</tr>
<tr>
<td>TGM450-48</td>
<td>48V</td>
<td>9.38A</td>
<td>450W</td>
</tr>
<tr>
<td>TGM450-56</td>
<td>56V</td>
<td>8.05A</td>
<td>450W</td>
</tr>
</tbody>
</table>

Tumbler Technologies + TRUMPower
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MECHANICAL SPECIFICATIONS

Notes:
1. Unit: mm
2. Tolerance: 0.5mm maximum, unless otherwise stated.
3. Weight: 1.6kg (3.53lbs) approx.
4. Cable length is 800mm for 12V output in order to meet CEC Level VI.
6. Contact TRUMPower for output connector and cable options.
7. Standard is AC Ground & DC Return separated. Connected available upon request.