FEATURES
- IEC 320/C6, C8 or C14 AC Inlet
- GaN FET Based Compact Design
- 11.1W/in³ High Power Density
- 95% Typical Efficiency
- Compliant with DoE Level VI
- IEC/EN/UL 60601-1 Approvals
- IEC/EN 60601-1-11 Approvals for Class II Models
- IP42 Class II & IP40 Class I Models

INPUT SPECIFICATIONS
Input Voltage Range .......... 100-240 VAC
Input Frequency ............. 50-60 Hz
Input Current ............... 2.4A max. @ 100 VAC/240 VAC
Inrush Current .............. 100A max. @ full load,
at 25°C cold start
Touch Current ................ 100 µA max. @ 264 VAC
Leakage Current .............. 100 µA max. @ 264 VAC (Class I)

OUTPUT SPECIFICATIONS
Output Power Ratings .......... See models list
No Load Power Cons. ......... 0.15W typical
Line Regulation .............. ±5% max.
Load Regulation .............. ±5% max.
Ripple and Noise* .......... 1% Vp-p max. of output @ full load
Over Voltage Protection ...... Set @ 180%; Latch off
Over Current Protection ...... Set @ 180%; Auto-recovery
Short Circuit Protection ...... Shut down; Auto-recovery
Over Temp. Protection ........ Latch off
Thermal Shutdown ............. Protected to over-temp. conditions
Temperature Coefficient ...... ±0.04%/°C max.
Transient Response .......... 0.5 ms for 50% load change typical
* Measured with 20MHz bandwidth at nominal line voltage and full load, with a 47µF low ESR electrolytic capacitor in parallel with a 0.1µF multilayer capacitor in parallel across the output.

GENERAL SPECIFICATIONS
Power Factor .................. >0.90 typical @ full load
Efficiency ...................... 95% typical @ full load
Switching Frequency ......... 250 KHz max.
Hold-Up Time ................. 10 ms min. @ full load
Operating Altitude .......... 5,000 meters max.
Operating Temperature ....... -20°C to +40°C
Derating ......................... Derate from 100% at +40°C linearly
to 50% at +60°C
Storage Temperature ......... -25°C to +80°C
Operating Humidity .......... 20% to 80%, non-condensing
Storage Humidity .......... 10% to 90%, non-condensing
Ingress Protection .......... IP40 for Class I, IP42 for Class II
Withstand Voltage ............ 4,000 VAC, input to output (2 MOPP),
1,500 VAC, input to ground (1 MOPP)
MTBF ............................. 300,000 hours minimum at full load,
25°C ambient, calculated per
Telcordia SR-332

MODELS LIST

<table>
<thead>
<tr>
<th>Product No. (1)</th>
<th>Output Voltage</th>
<th>Maximum Output Current</th>
<th>Maximum Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>TGM200-12</td>
<td>12V</td>
<td>16A</td>
<td>192W</td>
</tr>
<tr>
<td>TGM200-15</td>
<td>15V</td>
<td>13A</td>
<td>195W</td>
</tr>
<tr>
<td>TGM200-19</td>
<td>19V</td>
<td>10.5A</td>
<td>200W</td>
</tr>
<tr>
<td>TGM200-24</td>
<td>24V</td>
<td>8.3A</td>
<td>200W</td>
</tr>
<tr>
<td>TGM200-48</td>
<td>48V</td>
<td>4.2A</td>
<td>200W</td>
</tr>
</tbody>
</table>

Note:
1) Add suffix "-4" to the P/N for models furnished with IEC 320/C14 AC inlet, "-6" for C6 inlet, "-8" for C8 inlet, e.g. TGM200-12-4, TGM200-12-6, TGM200-12-8, etc.

STANDARDS & COMPLIANCE
IEC/EN 61000-1-2, 4th Ed. . EMC & Immunity Performance
EN 55011, EN 55022 ...... Class B, conducted & radiated
FCC, VCCI ................. Class B, conducted & radiated
EN 61000-3-3 .............. Line flicker
EN 61000-4-2 .............. ESD, ±15 KV air and ±8 KV contact
EN 61000-4-3 .............. Radiated immunity, 10 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, 10 Vrms
EN 61000-4-8 .............. Magnetic field immunity, 30 A/m
EN 61000-4-11 .......... Voltage dips,
30% reduction for 500ms,
60% reduction for 100ms,
>95% reduction for 10ms

Safety Standards ............ IEC/EN/UL 60601-1 (Edition 3.1),
ANSI/AAMI ES 60601-1 (Edition 3.1);
IEC/EN 60601-1-11 (Class II models)
Agency Approvals .......... UL, cUL, TUV, PSE, CE, CB
Other Compliance .......... RoHS, ErP Stage 2, DoE Level VI,
CoC Tier 2, NRCan & GEMS Level VI
MECHANICAL SPECIFICATIONS

Notes:
1. Unit: mm
2. Weight: 620 grams approx.
3. Length of output cable: 1200mm for 12V–15V, 1500mm for 19V–48V.
5. Mating connector: Kycon P/N KPJX-4S-S or equivalent.
6. Contact TRUMPower for output connector options.