INPUT SPECIFICATIONS
Input Voltage Range ............ 100-240VAC
Input Frequency ............... 50-60 Hz
Input Current .................. 2.2A 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 ............... 350 µA max. @ 264 VAC (Class I),
                            250 µA max. @ 264 VAC (Class II)

OUTPUT SPECIFICATIONS
Output Power Ratings .......... See models list
No Load Power Cons. ........... 0.21W typical
Line Regulation ............... ±0.5% max.
Load Regulation ............... ±5% max.
Ripple and Noise* .......... 1% Vp-p max. of output @ full load
Over Voltage Protection ...... Set @ 150-180%; Latch off
Over Current Protection ...... Set @ 150-180%; Auto-recovery
Short Circuit Protection ...... Shut down; Auto-recovery
Over Temp. Protection ......... Shut down; 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 ...................... >0.92 typical @ full load
Efficiency ....................... 90% min. @ full load
Switching Frequency .......... 250 kHz
Hold-Up Time ................... 10 ms min. @ full load
Operating Altitude ............ 5,000 meters max.
Operating Temperature ...... 0°C to +70°C
Derating ......................... Derate from 100% at +40°C
                            linearly to 50% at +70°C except 50%
                            at +60°C for 12V
Storage Temperature .......... -20°C to +80°C
Operating Humidity .......... 20 to 80% non-condensing
Storage Humidity ............. 10 to 90% non-condensing
Withstand Voltage .......... 3,000 VAC, input to output
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>TTG160-12</td>
<td>12V</td>
<td>12.5A</td>
<td>150W</td>
</tr>
<tr>
<td>TTG160-19</td>
<td>19V</td>
<td>8.4A</td>
<td>160W</td>
</tr>
<tr>
<td>TTG160-24</td>
<td>24V</td>
<td>6.6A</td>
<td>160W</td>
</tr>
<tr>
<td>TTG160-48</td>
<td>48V</td>
<td>3.3A</td>
<td>160W</td>
</tr>
<tr>
<td>TTG160-56</td>
<td>56V</td>
<td>2.86A</td>
<td>160W</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. TTG160-12-4, TTG160-12-6, TTG160-12-8, etc.

STANDARDS & COMPLIANCE
EN 55032, CISPR 32 ........ Class B, conducted & radiated
FCC, VCCI ...................... Class B, conducted & radiated
EN 61000-3-2 ................. Harmonic distortion, Class A & D
EN 61000-3-3 ................. Line flicker
EN 61000-4-2 ................. ESD, ±8 KV air and ±4 KV contact
EN 61000-4-3 ................. Radiated immunity, 3V/m
EN 61000-4-4 ................. Fast transient/burst, ±1 KV
EN 61000-4-5 ................. Surge, ±1 KV diff., ±2 KV com.
EN 61000-4-6 ................. Conducted immunity, 3 Vrms
EN 61000-4-8 ................. Magnetic field immunity, 1A/m
EN 61000-4-11 ............... Voltage dip immunity,
                            30% reduction for 500ms,
                            >95% reduction for 10ms
Safety Standards ............. IEC/EN/UL 62368-1:2014,
                            CAN/CSA C22.2 No. 62368-1-14,
                            IEC/EN/UL 60950-1 (2nd edition)
Agency Approvals ............ UL, cUL, TUV, PSE, CE, CB
Other Compliance ............ RoHS, Energy Star 2.0, ErP Stage 2,
                            DoE Level VI, CoC Tier 2, NRCan &
                            GEMS Level VI
MECHANICAL SPECIFICATIONS

Notes:
1. Unit: mm
2. Weight: 500 grams approx.
3. Standard output connector: Kycon P/N KPPX-4P or equivalent, mating with Kycon P/N KPJX-4S-S or equivalent
4. Length of output cable: 1200±50mm for 12V, 1500±50mm for 19-56V
5. Contact TRUMPower for non-standard models.

OUTPUT CONNECTOR

<table>
<thead>
<tr>
<th>PIN</th>
<th>CONNECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+V</td>
</tr>
<tr>
<td>2</td>
<td>+V</td>
</tr>
<tr>
<td>3</td>
<td>RETURN</td>
</tr>
<tr>
<td>4</td>
<td>RETURN</td>
</tr>
<tr>
<td>SHELL</td>
<td>AC GND/*NC</td>
</tr>
</tbody>
</table>

*Shell is NC on C8 inlet models.