**FEATURES**

- High Power Density Design with GaN FETs
- 100 x 200 x 27 mm Slim & Compact Enclosure
- 92% Efficiency
- 0.98 Active Power Factor
- 0°C to +70°C Operating Temperature
- Approved to EN 62368-1 & UL 62368-1 Safety Standards

**MODELS LIST**

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Output Voltage</th>
<th>Output Current</th>
<th>Maximum Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>TGA330-19.5</td>
<td>19.5V</td>
<td>0A-16.9A</td>
<td>330W</td>
</tr>
<tr>
<td>TGA330-24</td>
<td>24V</td>
<td>0A-13.75A</td>
<td>330W</td>
</tr>
</tbody>
</table>

**INPUT SPECIFICATIONS**

- Input Voltage Range: 90-264 VAC
- Input Frequency: 47-63Hz
- Input Current: 3.4A (rms) @ 100 VAC, 1.7A (rms) @ 240 VAC
- Inrush Current: 100A @ 100V or 200A @ 240V AC input at 25°C cold start
- Earth Leakage Current: 250 µA max. @ 264 VAC, 50 Hz
- No Load Power: <0.5W

**OUTPUT SPECIFICATIONS**

- Output Power Ratings: See table
- Load Regulation: ±5% max.
- Ripple and Noise*: <150 mVp-p typical
- Overvoltage Protection: Set at 115-140% of its nominal output voltage
- Overcurrent Protection: Protected to short-circuit conditions
- Over Temperature Protection: Protected to over temperature conditions
- Temperature Coefficient: ±0.04%/°C max.
- Transient Response: Max. excursion of 4% or better on all models, recovering to 1% of final value within 500 us after a 25% step load change

* Measured with 20MHz bandwidth at rated line voltage and output load ranges, with a 47µF aluminum capacitor in parallel with a 0.1µF ceramic capacitor in parallel across the output.

**GENERAL SPECIFICATIONS**

- Power Factor: >0.97 @ full load, 100/240 VAC
- Efficiency: >91% @ full load, 100/240 VAC
- Turn-on Delay Time: <3 sec. @ full load, 100/240 VAC
- Hold-up Time: >18 ms @ full load, 100/240 VAC
- Line Regulation: ±0.5% max. at full load
- Operating Temperature: 0°C to +70°C
- Derating: Derate from 100% at +40°C linearly to 60% at +70°C
- Storage Temperature: -20°C to +80°C
- Relative Humidity: 10% to 90% non-condensing
- Withstand Voltage: 4,242 VDC, Input to output, 2,545 VDC, Input to ground
- Operating Altitude: 5,000 meters max.
- MTBF: >300,000 hours at full load, 25°C ambient, calculated per SR332

**STANDARDS & COMPLIANCE**

- FCC, VCCI: Class B conducted & radiated
- EN 55032, CISPR 32: Class B conducted & radiated
- EN 61000-3-2: Harmonic distortion, Class D
- EN 61000-3-3: Line flicker
- EN 61000-4-2: ESD, ±15KV Air, ±8KV contact
- EN 61000-4-3: Radiated immunity, ±1KV
- EN 61000-4-4: Fast transient/burst, ±1KV
- EN 61000-4-5: Surge, ±1KV diff., ±2KV com.
- EN 61000-4-6: Conducted immunity, 3Vrms
- EN 61000-4-8: Magnetic field immunity, 1A/m
- EN 61000-4-11: Voltage dips, 30% reduction for 500 ms, and >95% reduction for 10 ms
- Safety Standards: EN/IEC 62368-1, UL 62368-1, CSA 22.2 No. 62368-1
- Agency Approvals: TUV, UL, cUL
- Other Compliance: RoHS, DoE Level VI, CoC V5 Tier 2
MECHANICAL SPECIFICATIONS

Notes:
1. Dimensions shown in mm.
2. Weight: 0.75kg (1.65 lbs) approx.
3. DC return is connected to earth ground through an 1K-ohm resistor as standard.
4. Contact TRUMPower for output connector options.