FEATURES
- 90–264 VAC Universal Input
- Class I with IEC 320/C14 AC Inlet
- Power-on LED Indicator
- Low Earth Leakage Current
- Standby Consumption < 0.3W
- Meet CEC & Energy Star Efficiency Level V Requirements

MODELS LIST

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Output Voltage</th>
<th>Min. Output Current</th>
<th>Max. Output Current</th>
<th>Tolerance</th>
<th>Ripple &amp; Noise (mVp-p)*</th>
<th>Average Efficiency (Typical) @ 115 VAC</th>
<th>Average Efficiency (Typical) @ 230 VAC</th>
<th>Max. Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM30-05</td>
<td>5V</td>
<td>0A</td>
<td>5.0A</td>
<td>±5%</td>
<td>75mV</td>
<td>83%</td>
<td>81%</td>
<td>25W</td>
</tr>
<tr>
<td>TAM30-09</td>
<td>9V</td>
<td>0A</td>
<td>3.33A</td>
<td>±5%</td>
<td>90mV</td>
<td>86%</td>
<td>84%</td>
<td>30W</td>
</tr>
<tr>
<td>TAM30-12</td>
<td>12V</td>
<td>0A</td>
<td>2.5A</td>
<td>±5%</td>
<td>120mV</td>
<td>86%</td>
<td>85%</td>
<td>30W</td>
</tr>
<tr>
<td>TAM30-15</td>
<td>15V</td>
<td>0A</td>
<td>2.0A</td>
<td>±5%</td>
<td>150mV</td>
<td>88%</td>
<td>86%</td>
<td>30W</td>
</tr>
<tr>
<td>TAM30-18</td>
<td>18V</td>
<td>0A</td>
<td>1.66A</td>
<td>±5%</td>
<td>180mV</td>
<td>88%</td>
<td>86%</td>
<td>30W</td>
</tr>
<tr>
<td>TAM30-24</td>
<td>24V</td>
<td>0A</td>
<td>1.25A</td>
<td>±5%</td>
<td>240mV</td>
<td>89%</td>
<td>87%</td>
<td>30W</td>
</tr>
<tr>
<td>TAM30-48</td>
<td>48V</td>
<td>0A</td>
<td>0.625A</td>
<td>±5%</td>
<td>480mV</td>
<td>91%</td>
<td>90%</td>
<td>30W</td>
</tr>
</tbody>
</table>

* Measured at rated line voltage and output load ranges, 20 MHz BW, with a 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor across the output.

INPUT SPECIFICATIONS
- Input Voltage Range .......... 90~264 VAC
- Input Frequency ............ 47~63Hz
- Input Current ............... 1.0A (rms) @ 115 VAC
- 0.6A (rms) @ 230 VAC
- Inrush Current ............. 50A @ 115 VAC or 100A @ 230 VAC,
  at 25°C cold start
- Earth Leakage Current ...... 100µA max. @ 264 VAC, 63Hz

GENERAL SPECIFICATIONS
- Efficiency .................. See table
- Hold-up Time .............. 8 ms min. at 115 VAC
- Turn on Delay Time ........ 3 seconds max. at 115 VAC
- Switching Frequency ........ 67 KHz
- Line Regulation ........... ±0.5% max. at full load
- Operating Temperature ...... 0°C to +50°C
- Derating .................... Derate from 100% at +40°C linearly
  to 50% at +60°C
- Storage Temperature ........ -40°C to +85°C
- Relative Humidity .......... 10% to 90% non-condensing
- Withstand Voltage .......... 4,000 VAC from input to output
- MTBF .......................... 300K hrs min. at full load,
  25°C ambient, calculated per
  MIL-HDBK-217F

OUTPUT SPECIFICATIONS
- Output Power Ratings ......... See table
- Ripple and Noise ............. See table
- Overvoltage Protection ...... Set at 116-230% of its nominal
  output voltage
- Overcurrent Protection ...... Protected to short-circuit conditions
- Transient Response .......... Max. excursion of 4% or better on
  all models, recovering to 1% of
  final value within 500 µs after a
  25% step load change

STANDARDS & COMPLIANCES
- IEC 60601-1-2 ................. EMC performance
- EN 55011, FCC, VCCI ............ Class B, conducted & radiated
- EN 61000-3-2 .................. Harmonic distortion, Class A
- EN 61000-3-3 ..................
- EN 61000-4-2 ................. ESD, ±8 KV air and ±6 KV contact
- EN 61000-4-3 ................. Radiated immunity, 3V/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, 3 Vrms
- EN 61000-4-8 ................. Magnetic field immunity, 3A/m
- EN 61000-4-11 ............... Voltage dip immunity,
  30% reduction for 500ms,
  60% reduction for 100ms,
  >95% reduction for 10ms
- Safety Standards ............. UL60601-1, EN 60601-1
- CSA C22.2 No. 601.1
- Agency Approvals ............ UL, cUL, TUV, CB, CE (LVD)
- Other Compliances .......... RoHS, CEC & Energy Star Level V
MECHANICAL SPECIFICATIONS

NOTES:
1. Dimensions: inches [mm]
2. Tolerance: 0.02 [0.5] maximum
3. Weight: approx. 260 grams (0.57 lbs.)
4. Standard output connector: 2.1 x 5.5 x 9.5 mm C+ barrel plug. Contact TRUMPower for other connector options.
5. Mating connector: Switchcraft 722A or equivalent.
6. The length of the output cable is 59.06 [1500] 18 AWG, except 39.37 [1000] 16 AWG for 5V and 9V output models, so as to comply with CEC and Energy Star efficiency level V requirements.