**Features**

* Universal Input Range 90-264VAC
* Meets EN55022 Class B and CISPR/FCC Class B, Conducted
* Continuous Short Circuit Protection
* Leakage Current 0.25mA Max.
* Over Voltage Protection
* PSE Mark is Option

**Ordering information**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>OUTPUT VOLTAGE</th>
<th>MIN. LOAD</th>
<th>OUTPUT CURRENT</th>
<th>RIPPLE &amp; NOISE</th>
<th>VOLTAGE REGULATION</th>
<th>LINE REGULATION</th>
<th>LOAD REGULATION</th>
<th>% EFF. (Typ.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR36A05</td>
<td>5V</td>
<td>0</td>
<td>4.0A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±6%</td>
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</tr>
<tr>
<td>TR36A09</td>
<td>9V</td>
<td>0</td>
<td>3.0A</td>
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<td>±2%</td>
<td>±1%</td>
<td>±5%</td>
<td>76%</td>
</tr>
<tr>
<td>TR36A12</td>
<td>12V</td>
<td>0</td>
<td>2.5A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±5%</td>
<td>78%</td>
</tr>
<tr>
<td>TR36A13</td>
<td>13.5V</td>
<td>0</td>
<td>2.4A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±5%</td>
<td>80%</td>
</tr>
<tr>
<td>TR36A15</td>
<td>15V</td>
<td>0</td>
<td>2.4A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±3%</td>
<td>80%</td>
</tr>
<tr>
<td>TR36A18</td>
<td>18V</td>
<td>0</td>
<td>2.0A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±2%</td>
<td>81%</td>
</tr>
<tr>
<td>TR36A24</td>
<td>24V</td>
<td>0</td>
<td>1.5A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±2%</td>
<td>81%</td>
</tr>
<tr>
<td>TR36A48</td>
<td>48V</td>
<td>0</td>
<td>0.75A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±2%</td>
<td>83%</td>
</tr>
</tbody>
</table>
Specifications

INPUT SPECIFICATIONS:
Voltage ............................................. 90–264Vac
Frequency .......................................... 50 to 60Hz
Inrush Current ................................... 60A max. @240Vac
Leakage Current ................................... 0.25mA max.

OUTPUT SPECIFICATIONS:
Holdup Time ........................................... 8ms typ. @115Vac
Short Circuit Protection ......................... Continuous(Auto Recover)
Over Voltage Protection ......................... TVS Component to Clamp
Temperature Coefficient ......................... ±0.05%/°C

GENERAL SPECIFICATIONS:
Isolation Input to output = 4,242VDC
Operating Temperature ........................ 0 ~ 60°C (see derating curve)
Storage Temperature ......................... -20~85°C
Humidity ........................................ 93% RH max. Non condensing
Cooling ...................................................... Natural Convection
Switching Frequency ....................... 50~70KHz Typical
Altitude ................................... 2000m
Dimensions ......................... 4.331x1.969x0.787 inches(110.00x50.00x20.00mm)
Weight ........................................ 190g(0.42 Pounds)
AC Inlet ............................................. IEC320/C8

SAFETY AND EMC:
Emission and Immunity ................. EN55022 Class B, FCC Part 15 Class B
........................................ EN61000-3-2, EN61000-3-3, EN55024
Safety .................. IEC60950-1, EN60950-1, UL60950-1

Mechanical Specification
All Dimensions are in inches (mm)

| Tolerance: inches: X.XX±0.02 |
| Millimeters: X.XX±0.5 |

TR36 Series Derating Curve

NOTE:
1. Voltage setpoint at 60% load
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
3. Line regulation is measured from 100Vac to 240Vac, full load.
4. Load regulation measured from 60% to 100% full load and from 60% to 20% load (60% +/- 40% full load)
5. *Various TR Series adapters are PSE certified. PSE certification alone is not sufficient for importation into Japan. A valid PSE mark must contain the name of the importer as shown in the example below. If PSE mark is required, the name of the registered importer must be supplied to Cincon on order placement. Product labels will not contain PSE mark if importer name is not supplied. Consult factory or local representative for details

DC Plug type: V+ — — V-
DC Plug: Right Angle(φ5.5/φ2.5 )L12mm
18AWG/1800mm

Typical at 25°C, nominal line and 75% load, unless otherwise Specified
Features

* Universal Input Range 90-264VAC
* Meets EN55022 Class B and CISPR/FCC Class B, Conducted
* Continuous Short Circuit Protection
* Leakage Current 0.25mA Max.
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