TRH50A SERIES
50W SWITCHING ADAPTER

Features

* Universal Input Range 90~264VAC
* Meets EN55032 Class B and CISPR/FCC Class B
* Continuous Short Circuit Protection
* Over Voltage Protection
* Meet CoC Tier 2 & DoE Level VI
* No load Power Consumption<150mW
* Approved IEC62368-1, UL62368-1, EN62368-1
  (Output Cable Length ≤ 1800mm)
  (TRH50A120, TRH50A150: Output Cable Length ≤ 1220mm)
  (TRH50A180, TRH50A190: Output Cable Length ≤ 1800mm 16AWG)

Ordering information

<table>
<thead>
<tr>
<th>Model No.</th>
<th>DC Plug Type</th>
<th>DC Cable Length and Type</th>
<th>OVP</th>
<th>DC Cable Length and Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRH50A120</td>
<td>720mm</td>
<td>01: 720mm</td>
<td>02: 1220mm</td>
<td>03: 1800mm</td>
</tr>
<tr>
<td>TRH50A150</td>
<td>720mm with Ferrite Core</td>
<td>11: 720mm with Ferrite Core</td>
<td>12: 1220mm with Ferrite Core</td>
<td>13: 1800mm with Ferrite Core</td>
</tr>
<tr>
<td>TRH50A180</td>
<td>720mm</td>
<td>01: 720mm</td>
<td>02: 1220mm</td>
<td>03: 1800mm</td>
</tr>
<tr>
<td>TRH50A190</td>
<td>720mm with Ferrite Core</td>
<td>11: 720mm with Ferrite Core</td>
<td>12: 1220mm with Ferrite Core</td>
<td>13: 1800mm with Ferrite Core</td>
</tr>
<tr>
<td>TRH50A240</td>
<td>720mm</td>
<td>01: 720mm</td>
<td>02: 1220mm</td>
<td>03: 1800mm</td>
</tr>
<tr>
<td>TRH50A280</td>
<td>720mm</td>
<td>01: 720mm</td>
<td>02: 1220mm</td>
<td>03: 1800mm</td>
</tr>
<tr>
<td>TRH50A360</td>
<td>720mm</td>
<td>01: 720mm</td>
<td>02: 1220mm</td>
<td>03: 1800mm</td>
</tr>
<tr>
<td>TRH50A480</td>
<td>720mm</td>
<td>01: 720mm</td>
<td>02: 1220mm</td>
<td>03: 1800mm</td>
</tr>
</tbody>
</table>

MODEL

<table>
<thead>
<tr>
<th>MODEL</th>
<th>OUTPUT VOLTAGE</th>
<th>OUTPUT CURRENT</th>
<th>RIPPLE &amp; NOISE</th>
<th>VOLTAGE ACCURACY</th>
<th>LINE REGULATION</th>
<th>LOAD REGULATION</th>
<th>AVERAGE EFFICIENCY min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRH50A120</td>
<td>12V</td>
<td>4.2A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±3%</td>
<td>89%</td>
</tr>
<tr>
<td>TRH50A150</td>
<td>15V</td>
<td>3.36A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±3%</td>
<td>89%</td>
</tr>
<tr>
<td>TRH50A180</td>
<td>18V</td>
<td>2.8A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±2%</td>
<td>89%</td>
</tr>
<tr>
<td>TRH50A190</td>
<td>19V</td>
<td>2.65A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±2%</td>
<td>89%</td>
</tr>
<tr>
<td>TRH50A240</td>
<td>24V</td>
<td>2.1A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±2%</td>
<td>89%</td>
</tr>
<tr>
<td>TRH50A280</td>
<td>28V</td>
<td>1.8A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±2%</td>
<td>89%</td>
</tr>
<tr>
<td>TRH50A360</td>
<td>36V</td>
<td>1.4A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±2%</td>
<td>89%</td>
</tr>
<tr>
<td>TRH50A480</td>
<td>48V</td>
<td>1.05A</td>
<td>1%</td>
<td>±2%</td>
<td>±1%</td>
<td>±2%</td>
<td>89%</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
Specifications

INPUT SPECIFICATIONS:
Voltage .......................................................... 90~264Vac
Frequency ....................................................... 47 to 63Hz
Input Current .................................................. 1.2A max.
Inrush Current ................................................. Cold Start @25℃ 100A max. at 240Vac
Leakage Current .............................................. 3.5mA max.

OUTPUT SPECIFICATIONS:
Hold-up Time .................................................. 8ms typ. @115Vac
Short Circuit Protection ...................................... Continuous(Auto Recovery)
Over Voltage Protection ..................................... TVS Component to Clamp
Temperature Coefficient .................................... ±0.05%/℃

GENERAL SPECIFICATIONS:
Isolation ....................................................... Input to output = 3000VAC
Operating Temperature ................................. -20 ~ 70℃ (see derating curve)
Humidity ...................................................... 93% RH max. Non condensing
Cooling ......................................................... Natural Convection
Switching Frequency ....................................... 65KHz Typical
Dimensions ................................................. 4.724x2.047x1.220 inches (120.00x52.00x31.00mm)
Weight ....................................................... 300g
AC Inlet ...................................................... IEC320/C14

SAFETY AND EMC:
Emission and Immunity ....................... EN55032 Class B, FCC Part 15 Class B
................................................................. EN61000-6-3,EN61000-3-2,EN61000-3-3
................................................................. EN55024, EN61204-3, EN61000-6-1
Safety ....................... Class I, IEC62368-1/60950-1, UL62368-1/60950-1
................................................................. EN62368-1/60950-1

Mechanical Specification

All Dimensions are in inches(mm)
Tolerance: Inches:X.XXX±0.02
Millimeters:X.XX±0.5

Typical at 25℃, nominal line and 75% load, unless otherwise Specified