FEATURES

- +5V to +48V Output Voltage Range
- 0.9 to 0.95 Power Factor
- No Load Power Consumption < 500 mW
- Comply with CEC, Energy Star, ERP & EISA Efficiency Level V
- Class I with IEC320/C14 AC Inlet

INPUT & OUTPUT SPECIFICATIONS

Input Voltage .......................... 90 to 264 VAC
Input Frequency ..................... 47 to 63 Hz
Input Current .......................... 2.5A (rms) max. @ 90 VAC;
.......................................... 1.0A (rms) max. @ 264 VAC
No Load Power ....................... <0.5W
Output Voltage & Current .......... See table
Output Voltage Regulation .... ±5% max.
Ripple and Noise ..................... See table
Earth Leakage Current .............. <300µA @ 264 VAC
Short-Circuit Protection .......... Auto recovery
Overload Protection ................. Auto recovery
Overvoltage Protection ............ Latch & shutdown, AC recycle

STANDARDS & COMPLIANCES

EMC Standards ...................... EN 60601-1-2, EN 55011 Class B,
FCC Part 18 Class B
Safety Standards .................... IEC/EN/UL 60601-1 3rd edition,
ANSI/AAMI ES 60601-1:2005,
CSA C22.2 No. 60601-1:08
Agency Approvals .................. UL, cUL, TUV, CB, CE (LVD)
Other Compliances ................. RoHS, CEC, Energy Star, ERP &
EISA efficiency level V

GENERAL SPECIFICATIONS

Switching Frequency .............. 63 KHz
Efficiency ......................... 87% minimum at average load,
115 VAC/230 VAC input, except 5V
output model
Power Factor ....................... >0.95 @115 VAC, >0.90 @230 VAC,
at full load
Hold-up Time ....................... >16 ms typical at full load, 115 VAC
Inrush Current ...................... 50A peak @ 115 VAC, 100A peak @
230 VAC, cold start @ 25°C
Withstand Voltage ................. >5,656 VDC, input to output,
>2,121 VDC, input to ground
Operating Temperature ............. 0°C to +70°C ambient
Derating ............................. Derate from 100% at +51°C
linearly to 50% at +70°C
Storage Temperature .......... ...... -20°C to +85°C
Operating Humidity .............. 20% to 90%
MTBF ................................. >183K hours at full load and 25°C
ambient temperature calculated
per MIL-HDBK-217F

MODELS LIST

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>TMA65-05</td>
<td>5V</td>
<td>8A</td>
<td>±5%</td>
<td>100mV</td>
<td>40W</td>
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<tr>
<td>TMA65-12</td>
<td>12V</td>
<td>5A</td>
<td>±5%</td>
<td>120mV</td>
<td>60W</td>
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<td>TMA65-15</td>
<td>15V</td>
<td>4A</td>
<td>±5%</td>
<td>150mV</td>
<td>60W</td>
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<td>TMA65-18</td>
<td>18V</td>
<td>3.6A</td>
<td>±3%</td>
<td>180mV</td>
<td>65W</td>
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<td>TMA65-24</td>
<td>24V</td>
<td>2.7A</td>
<td>±3%</td>
<td>240mV</td>
<td>65W</td>
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<td>TMA65-36</td>
<td>36V</td>
<td>1.8A</td>
<td>±3%</td>
<td>360mV</td>
<td>65W</td>
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<tr>
<td>TMA65-48</td>
<td>48V</td>
<td>1.35A</td>
<td>±3%</td>
<td>480mV</td>
<td>65W</td>
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Notes:
1)Ripple and noise are measured at output within 20 MHz bandwidth with a 10µf electrolytic capacitor in parallel with a 0.1µF ceramic capacitor.
### MECHANICAL SPECIFICATIONS (Unit: mm)

![Diagram of TMA65 Series power adapter with dimensions and labels]

<table>
<thead>
<tr>
<th>DC OUTPUT CONNECTOR</th>
<th>PIN</th>
<th>FUNCTION</th>
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<tr>
<td>1</td>
<td>+V</td>
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<tr>
<td>2</td>
<td>RETURN</td>
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</tr>
<tr>
<td>3</td>
<td>+V</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>RETURN</td>
<td></td>
</tr>
<tr>
<td>SHELL</td>
<td>RETURN &amp; AC GND</td>
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</tbody>
</table>

Standard output connector: Kycon P/N KPPX-4P 4-pin circular DIN or equivalent
Mating connector: Kycon P/N KPJX-4S-S or equivalent
Contact TRUMPower for output connector options.