FEATURES

- +12V to +48V, Output Voltage Range
- 0.9 to 0.95 Power Factor
- No Load Power Consumption < 500 mW
- CEC, Energy Star, ERP & EISA Efficiency Level V Compliant

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 Consumption <0.5W
Output Voltage & Current See table
Output Voltage Regulation ±5% max.
Ripple and Noise See table
Short-Circuit Protection Yes, Auto recovery
Overload Protection Yes, Auto recovery
Overvoltage Protection Latch & shutdown, AC recycle

GENERAL SPECIFICATIONS

Switching Frequency 50 to 125 KHz
Efficiency 87% minimum at average load, 115 VAC/230 VAC input
Power Factor >0.95 @ 115 VAC, >0.90 @ 230 VAC at full load
Hold-up Time >10 ms typical at full load, 115 VAC input
Inrush Current 65A peak @ 115 VAC, 130A peak @ 230 VAC, cold start @ 25°C
Withstand Voltage 4000 Vac from input to output, 1500 Vac from input to ground, 500 Vac from output to ground
MTBF >100,000 hours at full load and 25°C ambient temperature

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature 0°C to +60°C ambient
Derating Derate from 100% at 40°C linearly to 50% at 60°C
Storage Temperature -10°C to +80°C
Operating Humidity 0% to 90%

STANDARDS & COMPLIANCES

EMC Standards FCC Part 18/ EN55011, Class B
Safety Standards EN 60601-1-2, CE
Agency Approvals UL, cUL, TUV, CB, CE (LVD)
Other Compliances CEC, Energy Star, ERP & EISA efficiency level V, RoHS

MODELS LIST

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<tbody>
<tr>
<td>TMA165-12</td>
<td>12V</td>
<td>13.33A</td>
<td>120mV</td>
<td>160W</td>
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<td>TMA165-15</td>
<td>15V</td>
<td>10.67A</td>
<td>150mV</td>
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<td>TMA165-19</td>
<td>19V</td>
<td>8.42A</td>
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<td>24V</td>
<td>6.88A</td>
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<td>28V</td>
<td>5.89A</td>
<td>280mV</td>
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<td>TMA165-36</td>
<td>36V</td>
<td>4.58A</td>
<td>360mV</td>
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<td>TMA165-48</td>
<td>48V</td>
<td>3.44A</td>
<td>480mV</td>
<td>165W</td>
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*Measured at output within 20 MHz bandwidth, at rated line voltage and output load range, and with a 10 μF tantalum capacitor in parallel with a 0.1 μF ceramic capacitor across the output.

MECHANICAL SPECIFICATIONS

- Dimensions in mm
- Tolerance: ±0.5mm
- Output cable: 1,050 mm; AWM 2464 #16 AWG / 3C + shielding, UL80°C 300V VW-1
- Mating connector: Kycon P/N KPJX-4S-S or equivalent

Notes:
1. Dimensions in mm
2. Tolerance: ±0.5mm
3. Output cable: 1,050 mm; AWM 2464 #16 AWG / 3C + shielding, UL80°C 300V VW-1
4. Mating connector: Kycon P/N KPJX-4S-S or equivalent