**AXA Series**

20 Watts

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**Data Sheet**

**Total Power:** 20 W  
**Input Voltage:** 24 or 48 V  
**# of Outputs:** Single and Dual

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**SPECIAL FEATURES**

- Package size 1.0” x 1.0” x 0.4”
- Ultra-wide 4:1 input range: 9 - 36 Vin, 18 - 75 Vin
- Very high efficiency up to 90%
- Operating temperature range: -40 °C to +85 °C
- Output voltage adjustable
- I/O isolation voltage 1500 VDC
- Remote ON/OFF control
- Metal case with isolated baseplate
- CSA/UL/IEC/EN 60950-1 Safety Approval

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**SAFETY**

- cUL/UL 60950-1
- IEC/EN 60950-1

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**Electrical Specifications**

**Input**

- Input range: 9 - 36 Vdc, 18 - 75 Vdc
- Efficiency: 89% @ 12 Vo

**Output**

- Voltage tolerance: ±1.0%
- Line regulation: ±0.2% for single output, ±0.5% for dual output
- Load regulation: ±0.2% for 12 V, 15 V and 24 V, ±0.5% for 3.3 V and 5 V, ±1.0% for dual output
- Noise/ripple: 3.3 V and 5 V Models: 75 mV; 12 V and 15 V Models: 100 mV; 24 V Models: 150 mV; Dual Output Models: 100 mV
- Overload protection: 150% typ of Io max, hiccup
- Short circuit protection: Hiccup mode
- Switching frequency: 330 KHz

**Isolation**

- I/O isolation: I/O: 1500 Vdc
- Insulation resistance: 1000 Mohm
- Insulation capacitance: 1500 pF

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**Environmental Specifications**

- Operating ambient temperature range: -40 °C to +85 °C
- Storage temperature: -50 °C to +125 °C
- Humidity: 5% to 95% non-condensing
- MTBF: 346 Khrs calculated
### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Input Voltage</th>
<th>Output Voltage</th>
<th>Output Current</th>
<th>Efficiency</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXA04F18-L</td>
<td>9 - 36 Vdc</td>
<td>3 V3</td>
<td>4.5 A</td>
<td>87%</td>
<td>15 W</td>
</tr>
<tr>
<td>AXA04A18-L</td>
<td>9 - 36 Vdc</td>
<td>5 V</td>
<td>4 A</td>
<td>89%</td>
<td>20 W</td>
</tr>
<tr>
<td>AXA01B18-L</td>
<td>9 - 36 Vdc</td>
<td>12 V</td>
<td>1.67 A</td>
<td>89%</td>
<td>20 W</td>
</tr>
<tr>
<td>AXA01C18-L</td>
<td>9 - 36 Vdc</td>
<td>15 V</td>
<td>1.33 A</td>
<td>89%</td>
<td>20 W</td>
</tr>
<tr>
<td>AXA00H18-L</td>
<td>9 - 36 Vdc</td>
<td>24 V</td>
<td>0.835 A</td>
<td>88%</td>
<td>20 W</td>
</tr>
<tr>
<td>AXA00BB18-L</td>
<td>9 - 36 Vdc</td>
<td>±12 V</td>
<td>±0.835 A</td>
<td>89%</td>
<td>20 W</td>
</tr>
<tr>
<td>AXA00CC18-L</td>
<td>9 - 36 Vdc</td>
<td>±15 V</td>
<td>±0.67 A</td>
<td>89%</td>
<td>20 W</td>
</tr>
<tr>
<td>AXA04F36-L</td>
<td>18 - 75 Vdc</td>
<td>3 V3</td>
<td>4.5 A</td>
<td>88%</td>
<td>15 W</td>
</tr>
<tr>
<td>AXA04A36-L</td>
<td>18 - 75 Vdc</td>
<td>5 V</td>
<td>4 A</td>
<td>89%</td>
<td>20 W</td>
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</table>

To order the converter with heatsink, please add a suffix –HS (e.g. AXA00B36-LHS) to order code.

### Mechanical Dimensions

- All dimensions in mm (inches)
- Tolerance: X.X±0.25 (X.X±0.01)
  X.X±0.13 (X.X±0.005)
- Pin diameter Ø 1.0 ±0.05 (0.04±0.002)

### Pin Connections

<table>
<thead>
<tr>
<th>Pin</th>
<th>Single Output</th>
<th>Dual Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+Vin</td>
<td>+Vin</td>
</tr>
<tr>
<td>2</td>
<td>-Vin</td>
<td>-Vin</td>
</tr>
<tr>
<td>3</td>
<td>+Vout</td>
<td>+Vout</td>
</tr>
<tr>
<td>4</td>
<td>Trim</td>
<td>Common</td>
</tr>
<tr>
<td>5</td>
<td>-Vout</td>
<td>-Vout</td>
</tr>
<tr>
<td>6</td>
<td>Remote On/Off</td>
<td>Remote On/Off</td>
</tr>
</tbody>
</table>

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