60 WATT
SINGLE OUTPUT
Vehicular, Industrial
DC/DC Converters

FEATURES

• Durable for Vehicular Applications
• Heavy Duty Aluminum Case
• Weather Proof On/Off Switch
• Heavy Duty Input/Output Cables *
• 4:1 Input Voltage Range (9-36 Vdc, 16-72 Vdc)
• Efficiency to 85%
• Over-Voltage Protection
• Internal Pi Filter
• Six-Sided Shield

AICP60 Series

Specifications

All specifications are typical at nominal input, full load, and 25°C , unless otherwise noted.

INPUT
Input Voltage Range..............................................See Model Selection Guide
Input Filter..............................................................Pi Network
Reflected Ripple Current................................................75mA p-p

OUTPUT
Voltage Accuracy......................................................±2% max.
Line Regulation ........................................................±0.5% max.
Load Regulation........................................................±0.5% max.
Ripple Noise (20 MHz Bw)............................................1% Vp-p max.
Temperature Coefficient..............................................0.02% /°C
Temperature Coefficient Balance............................................±1%
Protection........................................Continuous Short Circuit Protection
Overvoltage Protection Threshold........................................15V

GENERAL
Efficiency..........................................................82-85% Typical, See Chart
Isolation Voltage......................................................1600 Vdc, min.
Isolation Resistance...................................................1000MOhms
Switching Frequency......................................................200KHz, typ.

ENVIRONMENTAL
Operating Temperature Range..........................-25 to +71°C
Storage Temperature Range.................................-55 to +125°C
Cooling ............................................................Free Air Convection
EMI / RFI..........................................................Six-sided Continuous Shield

PHYSICAL
Case Material........................................................Aluminum
Dimensions..................................................6.00" x 3.00" x 1.70"
                                 (152.4 x 76.2 x 1.7mm)
Input and Output Cord........................................6 ft. (UL) E3462
                                 (CSA) LL787414-2SJTOW 105°C

* The output can be terminated to your specifications.
Call factory for details.
Selection Guide

60 Watt Single Output DC/DC Converters

AICP60 Series

(Continued)

### Mechanical Specifications

<table>
<thead>
<tr>
<th>Input Voltage Nominal (Range) (Vdc)</th>
<th>Output Voltage (Vdc)</th>
<th>Output Current (A)</th>
<th>Efficiency (%)</th>
<th>Model Number</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-18</td>
<td>12</td>
<td>5</td>
<td>82</td>
<td>AICP60-12S12</td>
<td>S</td>
</tr>
<tr>
<td>9-36</td>
<td>12</td>
<td>5</td>
<td>82</td>
<td>AICP60-12S12W</td>
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<tr>
<td>36-72</td>
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<td>5</td>
<td>85</td>
<td>AICP60-48S12</td>
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<tr>
<td>16-72</td>
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<td>5</td>
<td>85</td>
<td>AICP60-48S12W</td>
<td>S</td>
</tr>
</tbody>
</table>

**I/O Connections**

<table>
<thead>
<tr>
<th>INPUT (2 CONDUCTORS)</th>
<th>OUTPUT (3 CONDUCTORS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>+Vin = Blue</td>
<td>+Vout = Blue</td>
</tr>
<tr>
<td>-Vin = Brown</td>
<td>-Vout = Brown</td>
</tr>
<tr>
<td>Case = Green/Yellow</td>
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</tbody>
</table>

**NOTE**

INPUT/OUTPUT CABLES AND MODULE AVAILABLE INDIVIDUALLY

UNIT HAS MOLEX PLUGS TO CONNECT INPUT/OUTPUT CABLES.

Units are supplied with input and output cables in 6ft lengths.

The input and output cables are connected to the module by molex plugs. Each of the three parts can be changed independently of the others. The input/output cables also have a nylon chafe guard for abrasion resistance. The input cable battery side is supplied stripped and tinned.

All Dimensions are in inches (mm)