CS7061A

AC-DC Power Supply

(Document Rev A03, 09/17/15)

Market: Military Cots

Application: Aircraft electronic equipment

Features
- 115Vac Input
- Chassis Mount Power Supply
- N+1 Configuration

Product Highlights
This multiple output AC-DC power supply is enclosed in a conduction cooled metallic case. The CS7061 takes 115V of single phase AC power and converts it into four Vdc outputs (+5Vdc, -12Vdc, +12Vdc, +24Vdc). The power supply unit is measures 5.7” H x 9.88” W x 3.63” L and only weighs a Maximum of 6.7 pounds. This aircraft AC-DC power supply was designed for use in Aircraft video decipher electronics, military defense power supply, defense power supply applications, and other military power supply systems.

AEGIS Power Systems, Inc. specializes in the front end design, development, and manufacture of Rapid Response Custom Switching Power Supplies for Mil-COTS, defense, industrial, telecomm, aircraft, shipboard, rack mount, and electric powered vehicle applications.

Table 1: Maximum Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Rating</th>
<th>Unit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vin max range</td>
<td>104 to 126</td>
<td>Vac</td>
<td>47-63 Hz, Single Phase</td>
</tr>
<tr>
<td>Temperature</td>
<td>-10 to +71</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>Combined output power</td>
<td>426</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>Input power</td>
<td>Call Aegis</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>Max +5Vdc power</td>
<td>300</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>Max -12Vdc power</td>
<td>18</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>Max +12Vdc power</td>
<td>48</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>Max +24Vdc power</td>
<td>72</td>
<td>W</td>
<td></td>
</tr>
</tbody>
</table>
SPECIFICATIONS

(Typical at 25°C, nominal line and 100% load, unless otherwise specified.)

AC input voltage: 104-126Vac, 47-63 Hz, Single Phase.

AC input line current: Contact Aegis.

Input power: Contact Aegis.

Power Factor: Contact Aegis.

Output power: 426W Max. See Table 2.

Holdup Time: Contact Aegis.

Output voltages: See table 2.

Efficiency: Contact Aegis.

Start up time: Contact Aegis.

Voltage set point: Contact Aegis.

Line regulation: Contact Aegis.

Load regulation: Contact Aegis.

Temperature regulation: Contact Aegis.

Output ripple: Contact Aegis.

Current Limit: Short circuit protection with automatic recovery.

Temperature: –10°C to +71°C.

Cooling: Contact Aegis.

Package: Contact Aegis.

Dimension: 6.8” H x 2.7” W x 11” L (see mechanical drawing).

Weight: 6.7 lb. Typical.

Connector: Contact Aegis for connector and pin-out information.

Vibration: Contact Aegis.

Shock: Contact Aegis.

Altitude: Contact Aegis.

Humidity: Contact Aegis.

EMI: Contact Aegis.

Other Features: N+1 Configuration

Specifications subject to change without notice.
Table 2: Voltage Outputs

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Vdc out</th>
<th>Watts out</th>
<th>Amps out</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS7061A</td>
<td>+5V</td>
<td>300W</td>
<td>60A</td>
</tr>
<tr>
<td></td>
<td>-12V</td>
<td>18W</td>
<td>1.5A</td>
</tr>
<tr>
<td></td>
<td>+12V</td>
<td>48W</td>
<td>4A</td>
</tr>
<tr>
<td></td>
<td>+24V</td>
<td>72W</td>
<td>3A</td>
</tr>
</tbody>
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**Connector Information**: Contact Aegis Power Systems.

**Connector Pin-Out Information**: Contact Aegis Power Systems.
NOTES: UNLESS OTHERWISE SPECIFIED

2. MATERIAL: 5052-H34 ALUMINUM ALLOY SHEET, .050 THICK.
3. FINISH: TINTED CHEMICAL FILM PER MIL-C-5541, CLASS 3.
4. WELD CORNERS CLOSED AND GRIND SMOOTH. INTERIOR WELD
   PENETRATION .03 MAX.
5. INSIDE DIMENSIONS SHOULD NOT BE LESS THAN 4.66 X 8.19.
   THIS IS THE MINIMUM CLEARANCE ACCEPTABLE TO FIT OUR PART.
6. REMOVE ALL BURRS AND BREAK ALL SHARP EDGES.
7. ALL LETTERING SHALL BE BLACK INK .125" HIGH.
8. PENETRATION .03 MAX.

AEGIS POWER SYSTEMS
MURPHY, NORTH CAROLINA

MSSCS7061-104RA

NOTE: DRAWING NO. 6005/344

DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
.005 ± .01 ± .005

DRAWN CHECKED APPROVED
9/7/99 11/24/99 12/5/99
L. CHOATE JKM JKM

SCALE SIZE
1/1 1/1

MFG. PROJ. ENG.

QUALITY

DECIMALS

DIMENSIONS ARE IN INCHES

FRACTIONS

MATERIAL

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