The FC500 Series is a highly compact AC/AC frequency converter. Suitable for a wide range of applications, the FC500 features full electronic protection, high efficiency and low output noise.

This is a highly reliable, field proven and rugged frequency converter that will operate without de-rating up to 50°C.

Extended operating temperature (-40° C to +65° C), ruggedization and conformal coating are available.

**Features**
- 500VA of output power
- Compact size & light weight
- Pure sine wave
- Full electronic protection
- Ultra quiet
- Highly reliable

**Applications**
- Aerospace
- Aviation Ground Support
- Military Applications (COTS)
- Industrial Controls
- OEM Applications
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model number</th>
<th>FC500-400</th>
<th>FC500-60</th>
<th>FC500-50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>90-264Vac, universal PFC, 47-410Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Current</td>
<td>7A max</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Connection</td>
<td>Terminal block</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output Voltage</td>
<td>115VAC/400Hz</td>
<td>115VAC/60Hz</td>
<td>230VAC/50Hz</td>
</tr>
<tr>
<td>Output Current</td>
<td>4.4 A</td>
<td>4.4 A</td>
<td>2.2 A</td>
</tr>
<tr>
<td>Output Connection</td>
<td>NEMA 5-15R duplex receptacle</td>
<td>Two IEC 320-C13 outlets</td>
<td></td>
</tr>
<tr>
<td>Package Dimensions (WxHxL)</td>
<td>5.2”x 5.2” x 16” (132 x 132 x 407mm)</td>
<td>19” mounting ears &amp; L-brackets included</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>14 lbs (6.3 kg)</td>
<td></td>
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</tr>
</tbody>
</table>

### Input Protection
- Inrush current limiting. Varistor. Internal safety fuse

### Isolation
- 2250Vdc input to chassis/output
- Output neutral is connected to the chassis

### Output Wave Form
- Pure Sine Wave

### Total Harmonic Distortion
- Less than 5% at full load

### Line/Load Regulation
- +6% from no load to full load

### Load Crest Factor
- Maximum 2.5 at 90% load

### Output Noise
- High frequency ripple is less than 500mVrms (20MHz BW)

### Output Overload Protection
- Current limiting with short circuit protection. Thermal shutdown with automatic recovery

### Output Overvoltage Protection
- 140V by internal supply voltage limiting

### Efficiency
- 85% at full load

### Operating Temperature Range
- 0° C to +50° C

### Cooling
- By built-in high quality fan

### Environmental Protection
- Basic ruggedizing. Conformal coating

### Shock/Vibration
- IEC 61373 Cat 1 A&B

### Humidity
- 5 - 95% non-condensing

### Standards
- Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950-1, CE marking

### EMI
- EN 55022 Class A with margins

### RoHS Compliance
- Compliant

### Warranty
- Two years subject to application within good engineering practice