

## 500VA FREQUENCY CONVERTER WITH SINE WAVE OUTPUT FC 500-C (MIL 461) SERIES

- Compact size, light weight
- Sinusoidal wave shape
- 500VA of output power
- Full electronic protection
- Robust construction
- Field-proven design topology
- Designed to meet MIL-461



Photograph of standard FC500 unit

The FC 500-C Series compact AC/AC Frequency Converter utilizes well established design techniques to ensure high reliability. It meets MIL-461 specifications, making it suitable for critical applications requiring very low conducted and radiated EMI. This frequency converter features full electronic protection, high efficiency and low output noise. The 500VA converter is cooled by a built-in fan. Extended operating temperature range of -40 to +65°C is available.

### SPECIFICATIONS

<p><b>Input Voltage</b> 115/230VAC, ±15% 47 ... 63Hz</p>	<p><b>Output Voltage</b> 115VAC/4.34A at 60Hz with grounded neutral.</p>	<p><b>Output Protection</b> Current limiting with short circuit protection Thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow MOV protection</p>	<p><b>Temperature Drift</b> 0.05% per °C over operating temperature range</p>
<p><b>Input Protection</b> Thermal fuse Inrush current limiting Surge protection</p>	<p><b>Wave Form:</b> Sinusoidal</p>	<p><b>Efficiency</b> Min 78% at full load</p>	<p><b>Dimensions</b> 6.25"x5.9"x16.75" enclosed case</p>
<p><b>Standards</b> C22.2 No. 107.1 - 01, UL 458 and EN60950</p>	<p><b>Total Harmonic Distortion</b> Less than 5% at full load</p>	<p><b>Load Crest Factor</b> Maximum 3.0 at 90% load</p>	<p><b>Connections</b> Input: Compression-type terminal Output: Standard AC receptacle</p>
<p><b>EMI</b> EN 55022 Class B MIL-STD-461</p>	<p><b>Line Regulation</b> Maximum 0.5% maximum</p>	<p><b>Operating Temperature Range</b> 0°C to +50°C. Extended temperature range as option.</p>	<p><b>Weight</b> 25 pounds (10.9kg)</p>
<p><b>Load Regulation</b> Maximum ± 2% from no load to full load.</p>			

Warranty: Twelve months subject to application within good engineering practice.  
Enhancements to these general specifications can be accommodated upon request  
Designed to meet common approval requirements. Specifications are subject to change.

**Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard.  
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