

## General Specifications

| Input Voltage | $115 \text { or 230Vac, +/-15\% }$ <br> $47 \ldots 410 \mathrm{~Hz}$ are standard. <br> Factory set for required input voltage. <br> - 95-264Vac universal input option |
| :---: | :---: |
| Input Protection | Inrush current limiting Internal safety fuse |
| Isolation | 2250 Vdc input to chassis/output Output neutral is connected to the chassis internally. Floating output as option |
| EMI | EN55011 Class A conducted |
| Immunity | EN 61000-4 |
| Output Waveform | Sinusoidal |
| Output Voltage | 115 Vac @ 60 Hz or $400 \mathrm{~Hz} / 8.7 \mathrm{~A}$ rms continuous; <br> or 230 Vac @ $50 \mathrm{~Hz} / 4.35 \mathrm{~A}$ rms continuous Output neutral is connected to the chassis internally. <br> Isolated floating output optional. |
| Harmonic Distortion | Less than 5\% at 100\% load. |
| Load Crest Factor | Maximum 2.5\% at 90\% load |
| Output Power | 1000VA |
| Regulation | Line / Load: $\pm 6 \%$ from $10 \%$ to $100 \%$ load step. |
| Output Noise | High Frequency ripple is better than 500 mVrms ( 20 MHz BW ) |
| Protection | Current limiting with short circuit protection Self re-setting thermostat for thermal protection |
| Output Over Voltage Protection | Output voltage is limited by internal supply voltage |
| Efficiency | Typically 78\% |
| Operating Temp | $0^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$ at rated load. Other options on request |
| Cooling | On Board Fans |
| Shock \& Vibration | Basic ruggedizing |
| Humidity | 5-95\% non-condensing |
| MTBF | >95,000 hrs at $45^{\circ} \mathrm{C}$ |
| Connector | Input: compression type terminal block Output: standard AC receptacle <br> Option: compression type terminal block |
| Dimensions | 3 U 3 case: $187 \times 132 \times 407 \mathrm{~mm}$ 19in Rack mount option |
| Weight | 6 kg |

## Features

- 115 or 230VAC output option
- 1000VA output power
- Frequency options $50 \mathrm{~Hz} / 60 \mathrm{~Hz} / 400 \mathrm{~Hz}$
- Sinusoidal output waveform
- Filtered input
- Rugged design for harsh environments
- Full electronic protection


## Description

The FC1K AC/AC frequency converter system uses field proven microprocessor controlled high frequency PWM technology to generate the required output power with pure sine wave output voltage.
It is a mature design with a track record in numerous applications. The frequency converter is built with internal power modules.
The AC/DC input stage boosts the input voltage to a higher DC voltage, which feeds the DC/AC inverter to generate the required $A C$ output. A built-in fan provides sufficient airflow for operation without de-rating to the specified temperature.
The high frequency conversion enables a compact construction, low weight and high efficiency.
The unit has full electronic protection. The input and output are filtered for low noise. The use of components with established reliability results in high MTBF.

| Options ( may not be available on all combinations ) |  |
| :--- | :--- |
| Alarms | Output Fail Alarm: voltage free relay contacts |
| Remote Inhibit | Remote ON / OFF |
| Ruggedized | Conformal coating and Ruggedization for use <br> in harsh environments. |
| Slow Start | Slow start up option for powering fans |
| Connector | A variety of terminals / connectors available to <br> suit special customer requirements |

Model No Example:
FC500-EA $=(230 \mathrm{~V} 50 \mathrm{~Hz} / 115 \mathrm{~V} / 60 \mathrm{~Hz})$



