



# ANALYTIC SYSTEMS

Power Conversion Solutions

AC/AC Frequency  
Converters

Model  
FTP1500R



## Description

The FTP1500R AC/AC frequency converter provides 3-phase power from a single-phase line outlet. The standard unit delivers 3-phase outputs of 208rms, 380Vrms or 415Vrms (PH-PH) continuous at 50, 60, or 400Hz.

The floating outputs are isolated from each other and can be connected in a 'Y' configuration or left as three individual outputs. In 'Y' configuration, the centre point (neutral) can be grounded.

The FTP1500R can be shut down electronically by a control switch on the front-panel of the unit. A remote shut-down option is also available. The unit features full electronic protection, high efficiency and low input and output noise.

## Benefits

- ◆ Ultra-Quiet
- ◆ Power sensitive electronics without interference
- ◆ Rugged & Reliable
- ◆ Ensure years of safe and trouble free operation

## Design Features

- ◆ Sinusoidal wave shape
- ◆ Isolated, floating output
- ◆ 1500VA output power
- ◆ Full electronic protection
- ◆ Telecom quality
- ◆ Field-proven design topology

## Applications

- ◆ Aviation / Marine
- ◆ Electric Utilities and Substations
- ◆ Telecom Power Plants
- ◆ Manufacturing Locations
- ◆ Steel Mills
- ◆ Military Applications (COTS)
- ◆ Industrial Controls
- ◆ OEM Applications
- ◆ Solar / Alternative Power Systems
- ◆ Fuel Cells

# AC/AC Frequency Converters

## FTP1500R

Input Voltage	115VAC, 60Hz - 400Hz 230VAC, 50Hz single phase (Consult factory for other inputs)
Input Protection	Thermal fuse, Inrush current limiting
Isolation	2250 VDC input to chassis / 2250 VDC input to output / 2250 VDC output to chassis
Output Voltages	208rms/ 3-phase continuous or 380Vrms/3-phase continuous or 415Vrms/3-phase continuous at 50, 60, or 400Hz.  The centre point (neutral) is floating - it can be grounded  (Consult factory for other voltages and frequencies)
Wave Form	Sinusoidal
Total Harmonic Distortion	Less than 5% at full load
Efficiency	Min 78% at full load
Line Regulation	Maximum 0.5%
Load Regulation	Maximum $\pm$ 6% from 10% load to full load
Output Protection	Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
EMI	EN 55022 Class B (typical)
Load Crest Factor	Maximum 3.0 at 90% load
Frequency Stability	$\pm$ 0.1%
Operating Temperature Range	0o C to +50o C (Extended range available, Consult factory)
Humidity	5 - 95% non-condensing
Temperature Drift	0.05% per o C over operating temperature range
Dimensions	4U x 19" x 15" Enclosed Case
Connections	Input/output: terminal block
Weight	40 pounds (18.2kg)
Safety	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950 Please contact factory for approval status for the requested input/output configuration

Warranty: Twenty Four 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 Subject to Change Without Notice. Designed and Manufactured in Canada



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