



## AC/AC Frequency Converters

### FTP1500R Series Frequency Converters

#### Benefits

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

#### 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

#### 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.

#### Features

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

# FTP1500R Series AC/AC Frequency Converters

## Specification

<b>Input Voltage</b>	115VAC, 60Hz - 400Hz 230VAC, 50Hz single phase (Consult factory for other inputs)
<b>Input Protection</b>	Thermal fuse, Inrush current limiting
<b>Isolation</b>	2250 VDC input to chassis / 2250 VDC input to output / 2250 VDC output to chassis
<b>Output Voltages</b>	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)
<b>Wave Form</b>	Sinusoidal
<b>Total Harmonic Distortion</b>	Less than 5% at full load
<b>Efficiency</b>	Min 78% at full load
<b>Line Regulation</b>	Maximum 0.5%
<b>Load Regulation</b>	Maximum $\pm$ 6% from 10% load to full load
<b>Output Protection</b>	Current limiting with short circuit protection, thermal shutdown with automatic recovery in case of continuous overload or insufficient airflow
<b>EMI</b>	EN 55022 Class B (typical)
<b>Load Crest Factor</b>	Maximum 3.0 at 90% load
<b>Frequency Stability</b>	$\pm$ 0.1%
<b>Operating Temperature Range</b>	0° C to +50° C (Extended range available, Consult factory)
<b>Humidity</b>	5 - 95% non-condensing
<b>Temperature Drift</b>	0.05% per ° C over operating temperature range
<b>Dimensions</b>	4U x 19" x 15" Enclosed Case
<b>Connections</b>	Input/output: terminal block
<b>Weight</b>	40 pounds (18.2kg)
<b>Safety</b>	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

Available from:



8128 River Way, Delta, BC Canada V4G1K5  
 Tel: 604-946-9981 / Fax: 604-946-8983 / Toll Free: 1-800-668-3884  
[www.analyticsystems.com](http://www.analyticsystems.com)  
 © 2008 Analytic Systems Ware (1993) Ltd.  
 Subject to Change Without Notice