

## 400Hz OUTPUT 3 PHASE FREQUENCY CONVERTERS 1500VA & 3000VA, UNIVERSAL INPUT

Highly compact AC/AC frequency converters with full electronic protection, high efficiency and low output noise.

### DESCRIPTION

The FC 400Hz 3-Phase are highly reliable, field proven and rugged frequency converters. They are available in 1500 & 3000VA.

They will operate without de-rating up to 50°C.



#### Features

- 1500VA & 3000VA
- Rackmount
- 3-Phase
- Universal Input
- Compact size, light weight
- Pure sine wave
- Full electronic protection
- Ultra quiet

#### Applications

- Aerospace
- Aviation Ground Support
- Military (COTS)
- Industrial Controls
- OEM

### MODEL SELECTION GUIDE

Model number	FC1500-400/3-RM	FC3000-400/3-RM
Input Voltage	90-264Vac, universal PFC, 47-410Hz	90-264Vac, universal AC, 47-410Hz
Input Current	20A max	37A max
Input Connection	Terminal block	
Output Voltage 3Ø Output	200/115VAC, 3Ø, 400Hz 3-Phase Output	
Output Current	7.5A 3Ø, 4.3A per phase	15A 3Ø, 8.7A per phase
Output Connection	Terminal block	
Package Dimensions (WxHxD)	17" x 5.2" x 16" (432 x 132 x 410mm) 19" rack mount brackets	
Weight	29 lbs (13.1 kg)	30 lbs (13.6 kg)

## TECHNICAL SPECIFICATIONS

Specifications	
<b>Input Protection</b>	Inrush current limiting. Varistor. Internal safety fuse
<b>Isolation</b>	2250Vdc input to chassis/output Output neutral is connected to the chassis
<b>Output Wave Form</b>	Pure sine wave
<b>Total Harmonic Distortion</b>	Less than 5% at full load
<b>Line/Load Regulation</b>	±6% from no load to full load
<b>Load Crest Factor</b>	Maximum 2.5 at 90% load
<b>Output Noise</b>	High frequency ripple is less than 500mVrms (20MHz BW)
<b>Output Overload Protection</b>	Current limiting with short circuit protection. Thermal shutdown with automatic recovery
<b>Output Overvoltage Protection</b>	By internal supply voltage limiting at 140Vac
<b>Efficiency</b>	85% at full load

Safety Features	
<b>Standards</b>	Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN60950-1, CE marking
<b>EMI</b>	EN 55022 Class A with margins
<b>RoHS</b>	Fully compliant
<b>Warranty</b>	Two years subject to application within good engineering practice

Environmental	
<b>Operating Temperature Range</b>	0° C to +50° C
<b>Cooling</b>	By built-in high quality fans
<b>Environmental Protection</b>	Basic ruggedizing. Conformal coating
<b>Shock/Vibration</b>	IEC 61373 Cat 1 A&B
<b>Humidity</b>	5 - 95% non-condensing

