

### PRODUCT OVERVIEW



## 400Hz 3-PHASE FREQUENCY CONVERTERS

UNIVERSAL INPUT

1500VA TO 3000VA

### FEATURES & APPLICATIONS

The FC 400hz 3-Phase Series are highly compact AC/AC frequency converters. Suitable for a wide range of applications, they feature full electronic protection, high efficiency and low output noise.

They are highly reliable, field proven and rugged frequency converters that will operate without de-rating up to 50°C.

Extended operating temperature (-40° C to +65° C), ruggedization and conformal coating are available.

#### Features

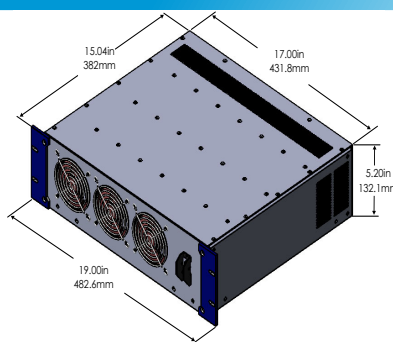
- 1500VA to 3000VA
- 3-Phase
- Compact size, light weight
- Pure sine wave
- Full electronic protection
- Ultra quiet
- Highly reliable
- 2 year warranty

#### Applications

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

## MODEL SELECTION

- 1500VA & 3000VA Power
- Rackmount
- 400Hz Output 3-Phase



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

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

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

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