

PRODUCT OVERVIEW

1500VA POWER

UNIVERSAL INPUT

400HZ OUTPUT



FEATURES & APPLICATIONS

The FC1500 Series is a highly compact AC/AC frequency converter. The unit delivers 3-phase, 400Hz output. Suitable for a wide range of applications, the FC1500 features full electronic protection, high efficiency and low output noise.

This is a highly reliable, field proven and rugged frequency converter 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 output power
- Pure sine wave
- Isolated, floating output
- Full electronic protection
- Ultra quiet
- Highly reliable

Applications

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

MODEL SELECTION

| | |
|---|---|
| Model number | FC1500-400/3 |
| Input Voltage | 90-264Vac, universal PFC, 47-410Hz |
| Input Current | 20A max |
| Input Connection | Terminal block |
| Output Voltage | 200/115VAC, 3Ø, 400Hz |
| Output Current | 7.5 A 3Ø, 4.3 A per phase |
| Output Connection | Terminal block |
| Package Dimensions (W x H x L) | 5.2" x 17" x 16" (132 x 432 x 406mm) 19" mounting ears |
| Weight | 40 lbs (18 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 internally |
| 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 | 140V by internal supply voltage limiting |
| Efficiency | 85% at full load |
| 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 - 90% non-condensing |
| 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 Compliance | Compliant |
| Warranty | Two years subject to application within good engineering practice |