

30, 45 AND 60KVA 400HZ AC UNITS

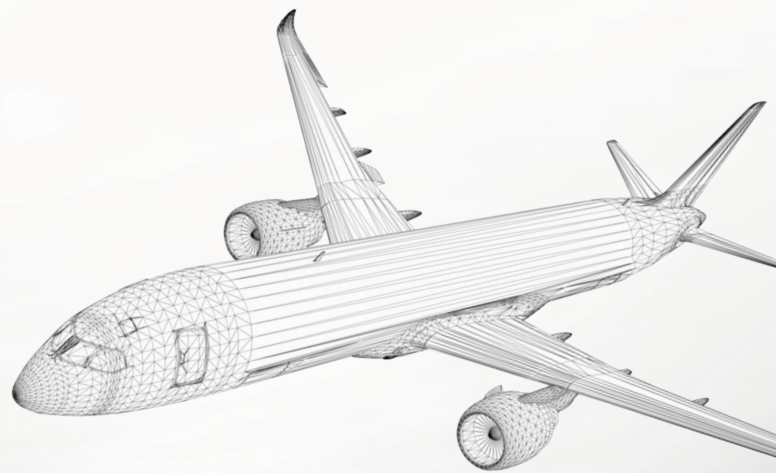


INNOVATION. QUALITY. SERVICE.

FEATURES

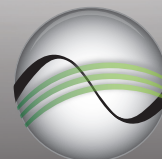
- RS /485 communications interface
- True RMS Design for precision voltage control of non-linear loads
- Integrated IGBT driver/power modules providing the most compact and reliable inverter design
- Laminated bus design reduces internal transients
- Weight: 1400 pounds (635 kg)
- Software options & upgrades

FCX Systems, Inc. designs and manufactures Point-of-Use Frequency Converters. Each solid-state unit is configured in a weatherproof, compact NEMA 3R equivalent rated cabinet (NEMA 4 equivalent completely sealed electronics) requiring minimal space. The most advanced solid-state technology enables these high performance power units to convert any conventional electrical power to 400Hz aircraft grade power. High performance and high reliability are achieved by using a laminated bus design to practically eliminate transient voltage surges. Insulated Gate Bipolar Transistors (IGBT) inverters are controlled by drivers specifically designed to monitor the health and protect the transistors.



OPTIONS/ACCESSORIES

- Start up and Training
- Additional Cable lengths
- Dual output AC



FCX
SYSTEMS

SPECIFICATIONS

AC OUTPUT

| | |
|-------------------|-------------------|
| AC Output Power | 30, 45 or 60 KVA |
| AC Output Voltage | 3 phase, 115/200V |

OUTPUT POWER

| | |
|---------------------|---|
| Output Frequency | 400Hz, +/- 0.01% |
| Voltage Recovery | Meets or exceeds limits of MIL-STD-704F, typically less than 50 milliseconds with a 100% load change. |
| Output Frequency: | 50Hz and 60Hz |
| Voltage Regulation: | ± 1% maximum |
| Voltage Balance: | ± 1% for balanced loads, ± 2% for 25% unbalanced loads |
| Harmonic Content: | 1.5% max., 1% typical (line to line, or line to neutral) |
| Overload Capacity: | 125% for one hour, 150% for 5 minutes, 200% for 20 seconds |
| NBPT | Fully capable of No Break Power Transfer for all aircraft |
| Protection: | Overload, short circuit, over and under voltage per MIL-STD-704F, over temperature, isolation, aircraft 28VDC interlock-immediate shutdown, access door interlock |
| Efficiency: | 93% or better at any power factor and load above 50% of rating |
| MTTR: | Mean time to repair less than 30 minutes |

ELECTRICAL INPUT

| | |
|----------------------|---|
| Input Voltage: | 208 to 600VAC, 208VAC, 220 VAC, 3 Phase, 60Hz, 480VAC, 3 Phase, 60Hz, 380VAC, 415VAC, 3 Phase, 50Hz |
| Input Frequency | 45 to 65 Hz |
| Input Phase Rotation | Any (automatic phase lock) |
| Protection | Overload, short circuit, over voltage, under voltage, phase loss, over temperature, access door interlock |

INRUSH CURRENT

| |
|---------------------------------|
| None, soft start to rated power |
|---------------------------------|

ENVIRONMENTAL

| | |
|----------------------|--|
| Audible Noise Level: | Less than 68dbA typical |
| Ambient Temp. Range: | Operating (-25 to 120 Degree F) Storage (-40 to 160 Degree F) |
| Humidity: | 10% to 100% with condensation |
| Altitude: | 0 to 3,000 meters (9,842 ft.) without derating |
| Wind: | Up to 145km/hr (90 mph) |
| Operational Life: | 30 to 35 years |

DIGITAL MONITOR

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|---|
| Diagnostics, 16 key matrix keypad for easy menu selection |
| Emergency stop push button |

ENCLOSURE

| |
|---|
| Caster: 46" H (117) x 38" W (97) x 56" D (142) Trailer: 59" H (150) x 38" W (97) x 81" D (206) |
| NEMA 3R rated |
| Mobile caster base or trailer |
| Cable tray located on top of enclosure with rear cable rack |
| Dimensions include push handle |
| Angled control panel for easy viewing of unit status |

OPTIONS

| |
|-----------------|
| 110 VAC Outlets |
| Input cables |
| Output cables |

expect focus. expect the best.



CAROLINA
Ground Service Equipment, Inc.

<http://www.carolinagse.com>
sales@carolinagse.com
252.349.5847