

30, 45 AND 60KVA 400HZ AC UNITS

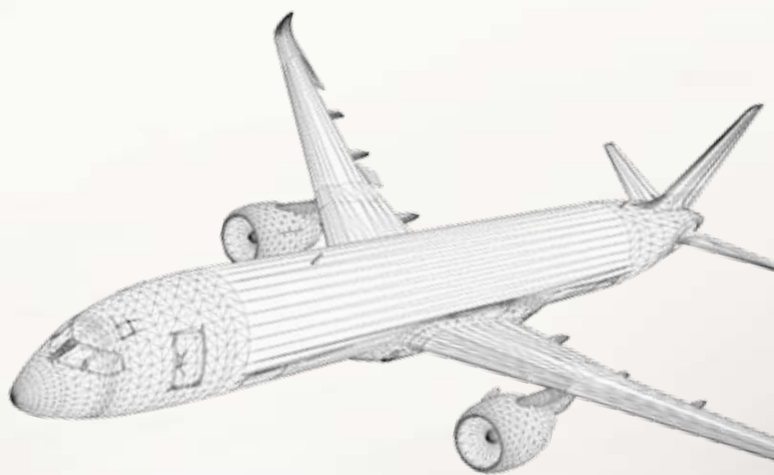


INNOVATION. QUALITY. SERVICE.

FEATURES

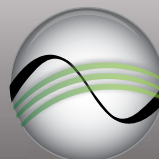
- RS /485 communications interface
- True RMS Design for precision voltage control of non-linear loads
- Integrated IGBT driver/power modules providing the most compact and reliable inverter design
- Laminated bus design reduces internal transients
- Weight: 1400 pounds (635 kg)
- Software options &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

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.



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