

GFC SERIES FlatPak™ 400 Hz FREQUENCY CONVERTER 15.0 kVA to 90.0 kVA



FIXED CONFIGURATION
(Analog Control Panel Shown)

STANDARD FEATURES:

- MIL-STD-704F, ARP 5015, DFS 400 and ISO 6858 Compliant
- Indoor/Outdoor Use
- Automatic Input Line Monitoring
- Automatic Line Drop Compensation (ALDC) up to 10%
- Emergency Mushroom "OFF" Switch
- Input Circuit Breaker
- Built-in Maintenance Diagnostics
- Analog Control Panel
- Output Voltage and Amp Meter
- Internal Elapsed Time Meter
- Front Panel Summary Fault Indicators
- Lockable Controls and Entry
- Lifting Eyes and Forklift Channels

APPLICATION:

Since its beginning in 1960, Unitron has specialized in the design and development of reliable, solid-state power systems. Through an innovative design, advanced self-diagnostic systems (BITE) and modular construction, Unitron products assure maximum power availability and minimal repair time.

The FlatPak™ Series includes 400 Hz converters specifically designed for installation where space is limited. The units mount "flat" against a wall, and offer the smallest size to power rating ratio in the industry. Also, by using noise reduction technology, Unitron converters are quiet enough to be located close to the equipment they serve. No special soundproofing or other insulation is required.

Output power ratings for the **400 Hz FlatPak Converter** range from 15 kVA to 50 kVA as standard ratings. For higher ratings contact factory. In addition to fixed units, Unitron offers 400 Hz, 28 VDC and combination AC/DC converters in mobile and towable configurations.

OPTIONS:

- Alternate Input Voltages Available (specify)
- Alternate Output Voltages Available (specify)
- Input/Output Contactors (specify)
- Front Panel AC Voltage Adjust ($\pm 15\%$)
- Front Panel Frequency Adjust ($\pm 10\%$)
- No Break Power Transfer (NBPT) Compatible
- Low Input Current Distortion (12-pulse) of 10% max
- Remote Monitoring and Control
- Auto Restart
- Parallel 2 or more Units
- Up to 500% Overload (dependent on rating)
- Digital Display Panel
- Alternate Mounting Configurations Available
- Privacy Panel (covers floor mounting hardware)

ISO 9001



Registered to ISO 9001:2000

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GENERAL SPECIFICATIONS

INPUT:

Voltage*	480 volts, +10%, -15%, 3Ø, 3 wire plus ground
Frequency	45 Hz - 66 Hz
Phase Rotation	Any
Protection	Over/under voltage, loss of phase, overcurrent, and short circuit
Inrush Current	No greater than 100% of full load current

MECHANICAL:

Size:	See Figure A.
Weight:	See Table Below

RATING	OPTIONS	WEIGHT
15.0 kVA	Note 1	595 lbs. (270 kgs.)
25.0 kVA	Note 1	660 lbs. (300 kgs.)
37.5 kVA	Note 1	715 lbs. (325 kgs.)
62.5 kVA	Note 1	800 lbs. (363 kgs.)
75.0 kVA	Note 2	870 lbs. (395 kgs.)
90.0 kVA	Note 2	925 lbs. (420 kgs.)

Note 1: All options available
Note 2: Excludes option T-1, T-3, and I-3 in combination

Construction:	Indoor/outdoor - as defined for NEMA 250, type 4 environment
Cooling:	Forced air
Connection:	Hardwire terminals

* Alternate Voltages Available (specify)

ENVIRONMENTAL:

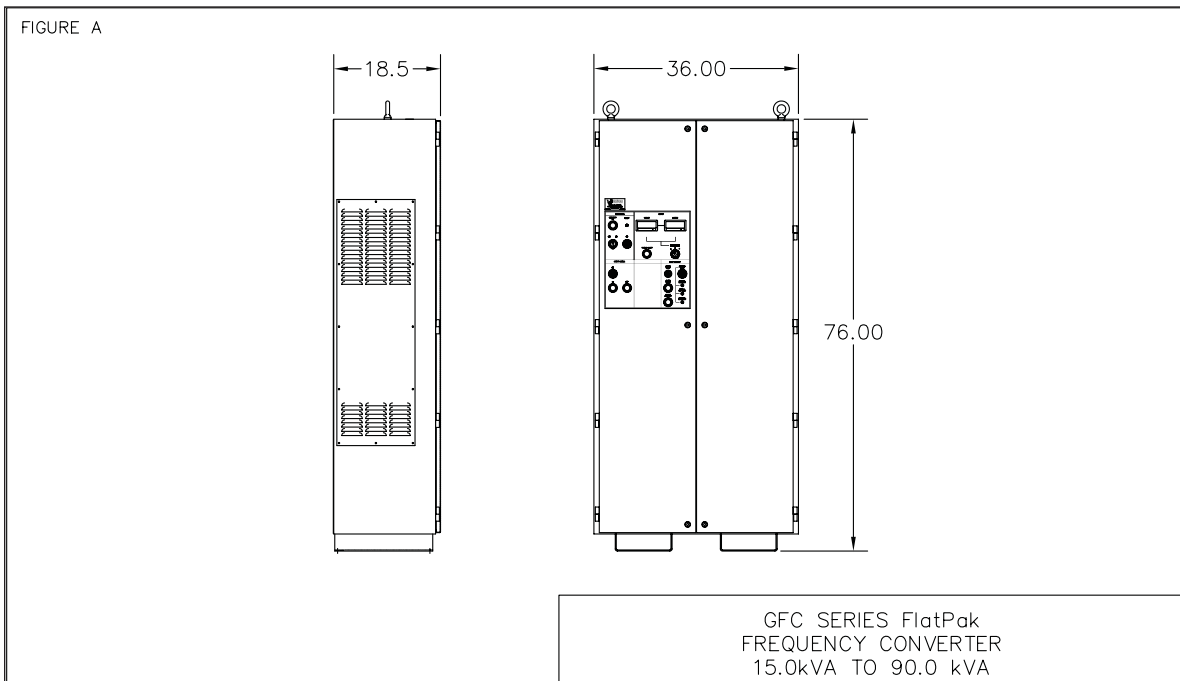
Acoustical Noise	68 dBA maximum at 5 feet
Temperature Range	-40°C to +55°C

OUTPUT:

Power Rating	15 to 90 kVA (specify)
Overload	110% for 60 min. 125% for 5 min. 150% for 2 min. 200% for 20 sec. 300% for 6 sec.
Voltage*	115/200 volts, 3Ø, 4 wire, grounded neutral
Voltage Regulation	± 1.0% under all conditions of line, load and temperature
Voltage Transients	IAW MIL-STD-704E
Frequency Regulation	400 Hz ± 0.01% under all conditions of line, load and temperature
Frequency Transients	None
Phase Angle Regulation	± 2° for balanced loads
Harmonic Distortion	2.0% typical, 2.5% maximum
Protection	Overload, short circuit, over/ under voltage and over/under frequency

ENERGY FACTORS:

Efficiency	95% typical at full load (75-90 kVA) 93% typical at full load (15-60 kVA) 90% typical at half load (all ratings) varies depending on configuration and rating
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