



# FREQUENCY CONVERTER

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## SPECIFICATIONS

- The Frequency Converter 3 maintains efficient and accurate voltage and frequency regulation. Which provides superior dependability to commercial/industrial environments in a small footprint.

## POWER RATING

- 10 kVA - 125 kVA three phase output unit uses the latest DSP/PWM technology to provide the most advanced performance and reliability features.

## PROTECTION

- Provides overload, surge and undercurrent protection using DSP/PWM technology and DSPM Watchdog Software to protect system performance and reliability.
- Surge protection against load surges as defined in ANSI/IEEE C62.45 category A and B

## INPUT

- 208, 380, 400, 415, 220, 380 or 480 VAC

## OUTPUT

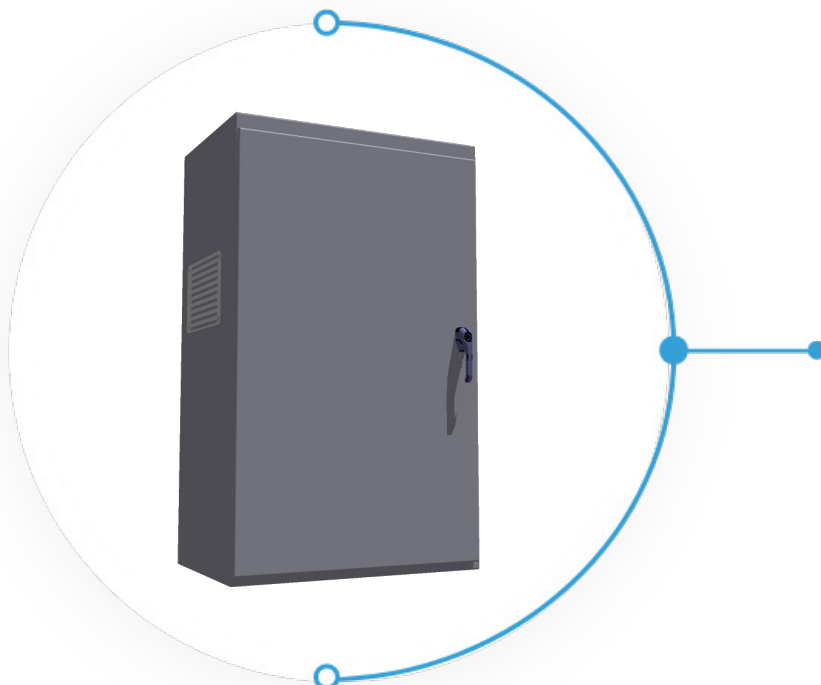
- 208VY, 380VY, 400VY, 415VY or 220VΔ, 180VΔ, 208Y/120, 380Y/220, 400Y/230, 415Y/240, 220Y/127 or 480/277

## BATTERIES

- Sealed, maintenance-free, lead calcium (AGM) batteries
- 10-Year prorated warranty
- DSP/PWM Smart Battery Monitoring System is TEMPERATURE COMPENSATED maintaining maximum runtime and battery life
- Microprocessor controlled recharge and DSP/PWM overcharge protection standard

## CODES

- Meets NFPA 101, NFPA 70, NEC and OSHA standards
- Complies with the Buy American Act



10 kVA - 125 kVA

Three Phase

Outdoor

Frequency

Converter

Power

System

## LAMPS AND LOADS

- Sine wave output
- 7% THD at 100% linear load

## DIAGNOSTICS AND MAINTENANCE

- DSP/PWM technology and DSPM Watchdog Software provides complete self diagnostic capabilities and LED Monitoring
- Informative advanced Display and Alarms keep you in control of your emergency lighting environment 24/7.

## WARRANTY

- 1-Year full warranty on system electronics
- System 1-year on-site warranty labor with DSPM phone assisted start-up
- 5-Year powertrain warranty
- Maintenance contracts available

## NEMA 3R CABINET

- Modular design enables flexible installation
- Forced air cooling for maximum reliability
- All systems are self contained

## INSTALLATION

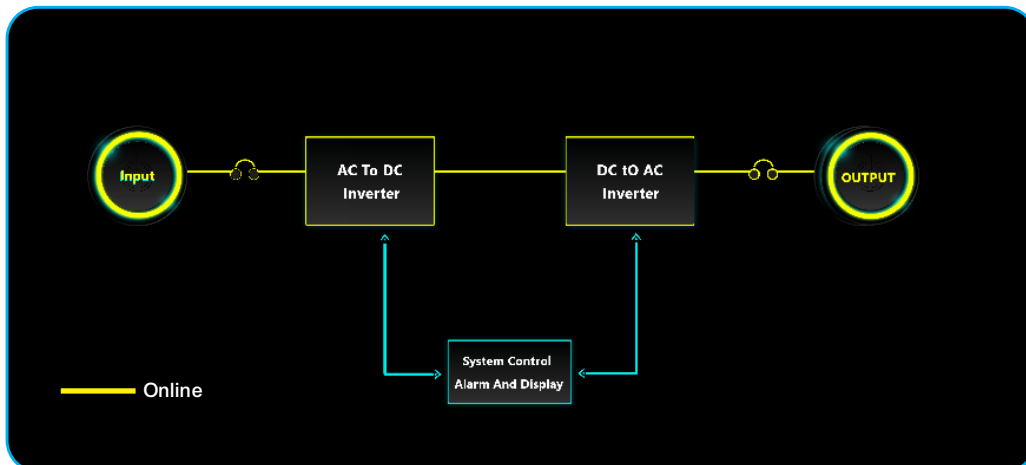
- Modular design and small footprint allow easy installation in electrical closet or other convenient locations
- Phone assisted factory start-up standard for all systems
- Extended warranty available

## SPECIAL APPLICATIONS

- DSPM offers numerous UL924 optional devices to meet unusual or difficult application parameters
- ECM - Environmental Circuit Module allows fixtures and lamps on the emergency circuit(s) to be operated by normal switching and/or dimming devices in NON-emergency conditions
- Dimming Panel Interface allows use with emergency lights controlled by common dimmer panel

## CABINET

- Modular design enables flexible installation
- Forced air cooling for maximum reliability
- All systems are self contained



| Frequency Converter Series | Power Rating | Cabinet Dimensions |     |                 | Weight          | Voltage (VAC)                                       |  | Output Protection                         | Safety Approvals           |
|----------------------------|--------------|--------------------|-----|-----------------|-----------------|---|--|---|----------------------------|
|                            |              | W                  | H   | D               |                 | Input   | Output   |   |                            |
| FCOT                       | kVA          |                    |     |                 | (lbs)           |   |  | Inpt and output circuit breakers standard | NFPA 101<br>NFPA 70<br>NEC |
|                            | 10           | 41"                | 72" | 32"             | 1310            | 208, 380,<br>400, 415,<br>220, 380<br>or<br>480 VAC | 208VY, 380VY,<br>400VY, 415VY,<br>220VΔ, 480VΔ,<br>208Y/120,<br>380Y/220,<br>400Y/230,<br>415Y/240,<br>220Y/127<br>or<br>480/277 VAC |   |                            |
|                            | 12           | 41"                | 72" | 32"             | 1410            |   |  |   |                            |
|                            | 16           | 41"                | 72" | 32"             | 1510            |   |  |   |                            |
|                            | 20           | 41"                | 72" | 32"             | 1610            |   |  |   |                            |
|                            | 24           | 41"                | 72" | 32"             | 1710            |   |  |   |                            |
|                            | 30           | 41"                | 72" | 32"             | 1810            |   |  |   |                            |
|                            | 40           | 41"                | 72" | 32"             | 1910            |   |  |   |                            |
|                            | 50           | 41"                | 72" | 32"             | 2260            |   |  |   |                            |
|                            | 60           | 41"                | 72" | 32"             | Consult Factory |   |  |   |                            |
|                            | 80           | 41"                | 72" | 32"             | Consult Factory |   |  |   |                            |
| 100                        | 41"          | 72"                | 32" | Consult Factory |                 |   |  |   |                            |
| 125                        | 41"          | 72"                | 32" | Consult Factory |                 |   |  |   |                            |

The Frequency Converter provides the simplicity and reliability that is needed when converting frequency. Easy installation ..."simplicity"...connect the FC3 to the circuit(s) and your frequency is..."reliable"...no matter the power needed. All loads connected to the FC3 will continuously supply the frequency needed for you. DSPM Watchdog© software keeps your environment safe while self-diagnostics help maintain equipment to a high standard. Superior surge suppression assures the highest quality of power being delivered to all loads, all the time.

You deserve the **peace of mind** that the Frequency Converter from **DSPM** ensures.

## ORDERING INFORMATION

Choose the bold face catalog nomenclature that best suites your needs.

Write them on the appropriate line. Order accessories as separate catalog number.

Example:

**FCOT - 12.0 - 208Y/120 208Y/120 - OCB/120/3 - 400**

Description of example:

(12.0 kVA, 208Y/120 Voltage In, 208Y/120 Voltage Out, 3 Output 120 Voltage Circuit Breakers, 400Hz Output)

| FCOT   |              | VOLTAGE <sup>1</sup> |          | OPTIONS  |  |
|--------|--------------|----------------------|----------|--|--|
| FAMILY | POWER RATING | Input                | Output   |  |  |
|        | <u>kVA</u>   |                      |          | <b>ECM120</b> - 120V Environmental control module <sup>2</sup> / qty |  |
|        | 8.0          | 208                  | 208VY    | <b>ECM277</b> - 277V Environmental control module <sup>2</sup> / qty |  |
|        | 10.0         | 380                  | 380VY    | <b>OCB</b> - 20 Amps output circuit breakers / voltage / quantity    |  |
|        | 12.0         | 400                  | 400VY    | <b>SRB</b> - Seismic rated bracket                                   |  |
|        | 16.0         | 415                  | 415VY    | <b>STU3</b> - Onsite startup   |  |
|        | 20.0         | 220                  | 220VΔ    | <b>HE</b> - Heat exchanger   |  |
|        | 24.0         | 380                  | 480VΔ    | <b>HTR</b> - Heater  |  |
|        | 30.0         | 480                  | 208Y/120 | <b>EW</b> - Extended warranty  |  |
|        | 40.0         |                      | 380Y/220 | <b>HZ</b> - 50, 60, 400  |  |
|        | 50.0         |                      | 400Y/230 |  |  |
|        | 60.0         |                      | 415Y/240 |  |  |
|        | 80.0         |                      | 220Y/127 |  |  |
|        | 100.0        |                      | 480/277  |  |  |
|        | 125.0        |                      |          |  |  |

## NOTES:

1- Consult factory for other voltage requirements.

Special voltages may effect the weight, size and number of cabinets.

2- One ECM is used per switching device or circuit.