

RUGGED GALAXY™ SERIES SOLID-STATE FREQUENCY CONVERTERS 3 PHASE OUTPUT 1.5 - 4.5KVA



APPLICATIONS

Utilizing field proven technology, this family of rugged solid-state sinewave frequency converters is suitable for harsh environments and can be customized for unique applications including:

- | | |
|---|---|
| <input type="checkbox"/> Shelters | <input type="checkbox"/> HMMWVs |
| <input type="checkbox"/> Tactical Systems | <input type="checkbox"/> Mobile Systems |
| <input type="checkbox"/> Shipboard Power | <input type="checkbox"/> Ground support |
| <input type="checkbox"/> MIL-STD-810 | <input type="checkbox"/> MIL-STD-461 |
| <input type="checkbox"/> MIL-S-901 | <input type="checkbox"/> MIL-STD-167 |

Powertek



ISO 9001

A Leader in Frequency Converter Technology since 1966 - 500VA to 500+KVA

MADE IN USA

RUGGED THREE-PHASE SINEWAVE FREQUENCY CONVERTER

CAN MEET MIL-STD-810, MIL-STD-1399, MIL-S-901, MIL-STD-704, & MIL-STD-461 OPTIONALLY

APPLICATIONS

The rugged Galaxy Series Converter is designed to provide years of reliable service in harsh shock, vibration, humidity, and EMI environments. Military applications include HMMVW, UAV, Shipboard, Submarine, Shelter, and Mobile Power Units.

OPTIONS

- Ruggedization to meet MIL-STD-810 shock, vibration and humidity
- MS Connectors or outlets
- Chassis slides (rack mount models only)
- Frequency Meters
- Elapsed Time Meter
- Power Factor correction available on selected GLFC-Series models.

SPECIFICATIONS

ELECTRICAL

Input: Any standard 1Ø or 3Ø (specify)
 Output: Most standard AC voltages including 115/200, 120/208, 220/380, other voltages available
 Frequency: 50, 60, or 400Hz (specify)
 Voltage Regulation: $\pm 1.5\%$ NL to FL
 Frequency Regulation: $\pm 0.5\%$ NL to FL
 Harmonic Distortion: 3% Typical, 5% Max
 Power Factor: 0.7 lead to 0.7 lag
 Efficiency: Approximately 85-95% (depending on model)
 Overload: 120% typical

PROTECTIVE FEATURES

Input Circuit Protection: Circuit Breaker / Fuses, Transient Suppressors
 Output Circuit Protection: Current Limit, Short Circuit

ENVIRONMENTAL

Operating Temp.: -20° to $+50^{\circ}\text{C}$
 Storage Temp. Range: -40° to $+71^{\circ}\text{C}$
 Humidity: to 95% RH non-condensing –
 Designed to meet MIL-STD-810.
 All boards conformal coated with Acrylic MIL-I-46058 Type R.
 Elevation: 15,000 Ft. typical
 Shock: 20g, 11 mS half sinewave –
 Designed to meet MIL-STD-810 optionally
 Audible Noise: 65 dBA at 5 ft. typical

HIGH-RELIABILITY

MTBF: 30,000+ hours typical per MIL-HDBK-217
 MTTR: Less than 30 minutes.

MODEL SELECTION

| PARTIAL MODEL NO. | KVA | OUTPUT VOLTAGE | OUTPUT FREQ. (HZ.) | WEIGHT | SIZE (H x W x L) |
|----------------------------|-----|--------------------|--------------------|--------|-----------------------|
| GLFC1.5K3/5 GLFC1.5K3/6 | 1.5 | 220/380 120/208 | 50 60 | 96 | 5.25" x 19.0" x 22.5" |
| GLFC1.5K3/4 | 1.5 | 115/200 | 400 | 96 | 5.25" x 19.0" x 22.5" |
| GLFC2K3/5 GLFC2K3/6 | 2 | 220/380 120/208 | 50 60 | 118 | 5.25" x 19.0" x 22.5" |
| GLFC2K3/4 | 2 | 115/200 | 400 | 118 | 5.25" x 19.0" x 22.5" |
| GLFC3K3/5 GLFC3K3/6 | 3 | 220/380 120/208 | 50 60 | 118 | 5.25" x 19.0" x 22.5" |
| GLFC3K3/4 | 3 | 115/200 | 400 | 118 | 5.25" x 19.0" x 22.5" |
| GLFC4.5K3/5 GLFC4.5K3/6 | 4.5 | 220/380 120/208 | 50 60 | 130 | 8.75" x 19.0" x 24.0" |
| GLFC4.5K3/4 | 4.5 | 115/200 | 400 | 130 | 8.75" x 19.0" x 24.0" |

