APPLICATIONS

The Galaxy-MIL Series Inverters are extremely rugged by design, and built to withstand the rigors of harsh environment military applications where MIL-STD-461 and MIL-STD-810 apply. MIL-STD-1275 is optional as well. The units are ultra reliable and used worldwide on a variety of high profile mission critical applications where light weight, high MTBF, and low MTTR are called for. They can be easily customized with a variety of options to fit almost any application from vehicular to aircraft.

- MILITARY SHELTERS
- TACTICAL SYSTEMS
- MIL-STD-810
- GROUND SUPPORT
- UTILITY APPLICATIONS
- MIL-STD-461
- MOBILE SYSTEMS
- COMMUNICATIONS
FEATURES
- Pure Sinewave Output
- Small Size & Light Weight for Portability
- High reliability:
  MTBF: 30,000+ Hours per MIL-HDBK-217
  MTTR: 30 Minutes (assuming qualified tech)
- OV, O.L. and O.T. protected
- Withstands high reactive load
- Tight voltage and frequency regulation
- Output fault alarm (relay closure)
- All boards conformal coated with Acrylic MIL-I-46058 Type AR

OPTIONS
- MS Mating Connectors
- Special output voltages and frequencies
- Provision for 3 Phase connection with 2 more identical units
- 19” Panel mount or wall mount plates
- Alternative connectors
- Custom painting and marking
- Non-PVC wiring
- Transfer switch to alternate AC source
- External EMI filter box

ELECTRICAL
- **Input**: 20 - 32VDC (MIL-STD-1275 Optional)
- **Output**: 120VAC (220VAC optional)
- **Frequency**: Specify 50, 60, or 400Hz
- **Voltage Regulation**: ± 1.5% NL to FL
- **Frequency Regulation**: ± 0.5% NL to FL
- **Efficiency at full load**: 85-86% typical
- **Reactive Load**: 0.7 Lead to 0.7 Lag
- **Distortion**: 5% THD, 3% Single Harmonic
- **Overload**: 125% for 5 minutes
- **Sync & Phase Lock Range**: +/-3 Hz
- **Transient Response**: Approx. 1/4 cycle recovery to 95% of nominal

PROTECTIVE FEATURES
- Automatic overload, short circuit
- Over-temperature protected
- Dust filters
- Output circuit breaker

ENVIRONMENTAL
- **Op. Temp.**: -32° to +50°C per MIL-STD-810
- **Storage Temp. Range**: -40° to +80°C
- **Humidity**: to 95% RH non-condensing
- **Elevation**: 15,000 Ft. (4,572m) operating; 40,000 Ft. (12,192m) non-operating
- **Audible Noise**: Less than 55 dbA at 5 ft.
- **Rain & Dripping Water**: per MIL-STD-810F
- **Vibration**: per MIL-STD-810F
- **Shock**: per MIL-STD-810F
- **Fungus**: to MIL-STD-810F
- **Salt / Fog**: per MIL-STD-810
- **Sand / Dust**: per MIL-STD-810

EMI: Designed to meet MIL-STD-461 CE102, CS101, CS106, CS109, CS114, CS115, CS116, RE102, RS103 (with optional filtering box)

MODEL SELECTION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INPUT VDC</th>
<th>OUTPUT POWER</th>
<th>APPROX. WEIGHT (Lb.)</th>
<th>SIZE (H x W x L) (INCHES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGL600W-24-120-MIL</td>
<td>120</td>
<td>600 W</td>
<td>9.5 Lb.</td>
<td>3.50 x 9.80 x 16.00</td>
</tr>
<tr>
<td>GL1K60-24-120-MIL</td>
<td>120</td>
<td>1 KVA</td>
<td>15 Lb.</td>
<td>6.80 x 10.00 x 17.90</td>
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<tr>
<td>GL2.5K60-24-120-MIL</td>
<td>120</td>
<td>2.5 KVA</td>
<td>35 Lb.</td>
<td>6.80 x 10.00 x 17.90</td>
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<tr>
<td>GL5K60-24-120-MIL</td>
<td>120</td>
<td>5 KVA</td>
<td>65 Lb.</td>
<td>9.00 x 12.00 x 17.90</td>
</tr>
</tbody>
</table>

MECHANICAL SPECIFICATIONS

TYPICAL GL2.5K60-24-MIL

Specifications subject to change without notice.