

RUGGED GALAXY MIL-SERIES PURE-SINEWAVE DC-AC INVERTERS

Input: 20-32VDC (MIL-STD-1275 OPTIONAL)

Output: 120V or 220V

50, 60Hz or 400Hz

Power: 600W-5KVA



APPLICATIONS

Utilizing field proven technology, this family of rugged pure sinewave DC-AC Inverters is designed for military environments and can be customized for unique applications including:

- Military Shelters
- Tactical Systems
- Ground support
- MIL-STD-810
- Utility Applications
- Mobile Systems
- Communications
- MIL-STD-461



NOVA ELECTRIC
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A Leader in DC-AC Inverter Technology since 1966 - 500VA to 500+KVA

MADE IN USA

RUGGED PURE SINEWAVE DC-AC INVERTER

CAN MEET MIL-STD-810, MIL-STD-1275, MIL-STD-901, MIL-STD-704, & MIL-STD-461 OPTIONALLY

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-1275, MIL-STD-461, and MIL-STD-810 apply. 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.

STANDARD 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

TYPICAL SPECIFICATIONS

ELECTRICAL

Input: 20 - 32VDC
(MIL-STD-1275 Optional)
Output: 120VAC (220VAC optional)
Frequency: Specify 50, 60, or 400Hz
Voltage Regulation: $\pm 1.5\%$ NL to FL
Frequency Regulation: $\pm 0.5\%$ 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

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

ENVIRONMENTAL

Op. Temp.: -32° to $+50^{\circ}\text{C}$ per MIL-STD-810
Storage Temp. Range: -40° to $+80^{\circ}\text{C}$
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: to 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

PROTECTIVE FEATURES

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

PARTIAL MODEL SELECTION

MODELS	OUTPUT POWER	WEIGHT (LBS)	DIMENSIONS H x W x D (Inches)
NGL600W-24-120-MIL	600W	7	3 x 9.5 x 13.25
GL1K60-24-120-MIL	1 KVA	15	6.5 x 11.00 x 19.5
GL2.5K60-24-120-MIL	2.5 KVA	35	5.5 x 12.00 x 17.00
GL5K60-24-120-MIL	5 KVA	65	5.25 x 19.00 x 22.00

