



MIL SERIES 24 VDC NOMINAL INPUT PURE SINE WAVE DC-AC INVERTERS FOR MILITARY VEHICLES

- Compliance to MIL-STD-810 and MIL-STD-461
- Optional Compliance to MIL-STD-1275

 Ultra Compact and Lightweight



These units are suitable for applications such as:

- · Military Shelters
- · Ground Support
- · Mobile Systems
- · Tactical Systems

- · Military Ground Vehicles
- · Shipboard Applications
- · Airborne Applications
- · Communications Systems





POPULAR OPTIONS

- MIL-STD-1275 Compliance
- MS Connector Mates
- Multiple Output Outlets
- Shock Mounts
- Electromechanical Transfer Switch
- Custom Enclosures
- CAD Free Connectors
- Non-PVC Wiring
- Custom Markings
- High IP Protection For Front / Rear Panels Including Louvers On All Intake And Exhaust, As Well As Fully Gasketed Breakers, Switches, And Indicators.
- AUX DC Outputs
- Power Distribution Units (PDUs)
- Environmental Stress
 Screening Services

CONTACT

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MIL SERIES 24 VDC NOMINAL INPUT PURE SINE WAVE DC-AC INVERTERS FOR MILITARY VEHICLES

GENERAL OVERVIEW

The MIL Series Military Pure Sinewave DC-AC 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 for ground vehicles as well. These military inverter 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 required. They can be easily customized with a variety of options (including rugged transit cases) to fit almost any application from vehicular to aircraft.

SPECIFICATIONS

Electrical

INPUT VOLTAGE	20-32 VDC (MIL-STD-1275 Optional)	
OUTPUT VOLTAGE	120 VAC (115 and 220 VAC Optional)	
FREQUENCY	Choose 50 Hz, 60 Hz, Or 400 Hz (+/-0.5%)	
FREQUENCY REGULATION	+/-0.5% N.L. to F.L.	
VOLTAGE REGULATION	+/-1.5% N.L. to F.L.	
EFFICIENCY	Approximately 85-86% (Depending On Model)	
REACTIVE LOAD	0.75 Lead To 0.75 Lag	
DISTORTION	5% THD, 3% Single Harmonic	
OVERLOAD	125% For 5 Minutes	
OVERLOAD PROTECTION RANGE	Automatic Overload & Short Circuit Protection	
SYNC & PHASE LOCK RANGE	+/-3 Hz, Typical (50/60 Hz models)	
TRANSIENT RESPONSE	Approx. 1/4 Cycle Recovery To 95% Of Nominal	



Optional Rugged Transit Case Shown With GL5K Model Installed

Environmental & Mechanical (Typical)

OPERATING TEMP.	-32°C to +50°C	
	per MIL-STD-810 (Extended Range Available)	
STORAGE TEMP.	-40°C to +80°C per MIL-STD-810	
RAIN & DRIPPING WATER	to MIL-STD-810F Method 506.4	
VIBRATION	per MIL-STD-810F Method 514.5 on Iso-Mount	
SHOCK	per MIL-STD-810F Method 516.5 on Iso-Mount	
DROP	per MIL-STD-810F (Optional Transit Case)	
HUMIDITY	To 95% RH non-condensing per MIL-STD-810F Method 507.4	
FUNGUS	to MIL-STD-810F Method 508.5	
SALT / FOG	per MIL-STD-810 Method 509.4	
SAND / DUST	per MIL-STD-810 Method 510.4	
ALTITUDE	to 15,000 feet per MIL-STD-810F Method 500.4	
LIGHTNING PROTECTION	per MIL-STD-464 Near Strike Lightning (NSL) Requirements	
ЕМІ	MIL-STD-461E CE102, RE102, RS103, CS101, CS114, CS115, and CS116 – Optional External Filters are Available to Comply with Additional Parameters as Required. Compliance to FCC Part 15 Subpart B Class A also Available.	
FINISH (TYPICAL)	ANSI-61 Gray Semi-Gloss - Optional CARC Paint IAW MIL-DTL-53039B (Green 383) – Consult Factory for Other Optional Finishes	





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TYPICAL 60 Hz MODELS

MODEL	KVA / KW	SIZE (H x W x L)	WEIGHT (LBS)
NGL600W-24-120-MIL	600 W	3.5" x 8.75" x 16"	9.5
NGL1K60-24-120-MIL	1.25 / 1	3.0" x 5.0" x 13.7"	8
GL2.5K60-24-120-MIL	2.5 / 2	5.5" x 12" x 17"	35
GL5K60-24-120-MIL	5/4	5.25" x 19" x 22"	65

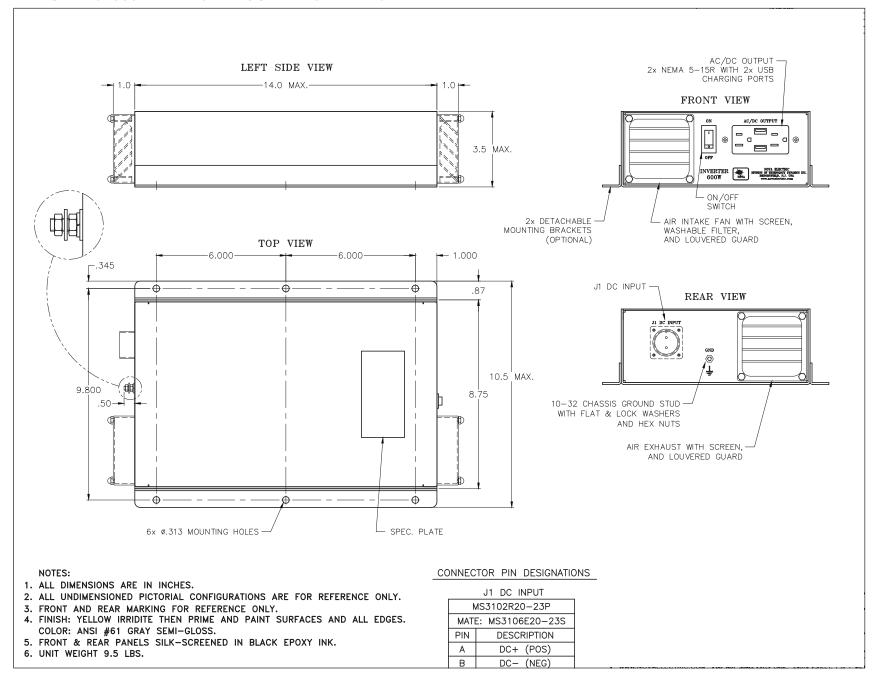
TYPICAL 50 Hz MODELS

MODEL	KVA / KW	SIZE (H x W x L)	WEIGHT (LBS)
NGL600W-24-220-MIL	600 W	3.5" x 8.75" x 16"	9.5
NGL1K50-24-220-MIL	1.25 / 1	3.0" x 5.0" x 13.7"	8
GL2.5K50-24-220-MIL	2.5 / 2	5.5" x 12" x 17"	35
GL5K50-24-220-MIL	5/4	5.25" x 19" x 22"	65

TYPICAL 400 Hz MODELS

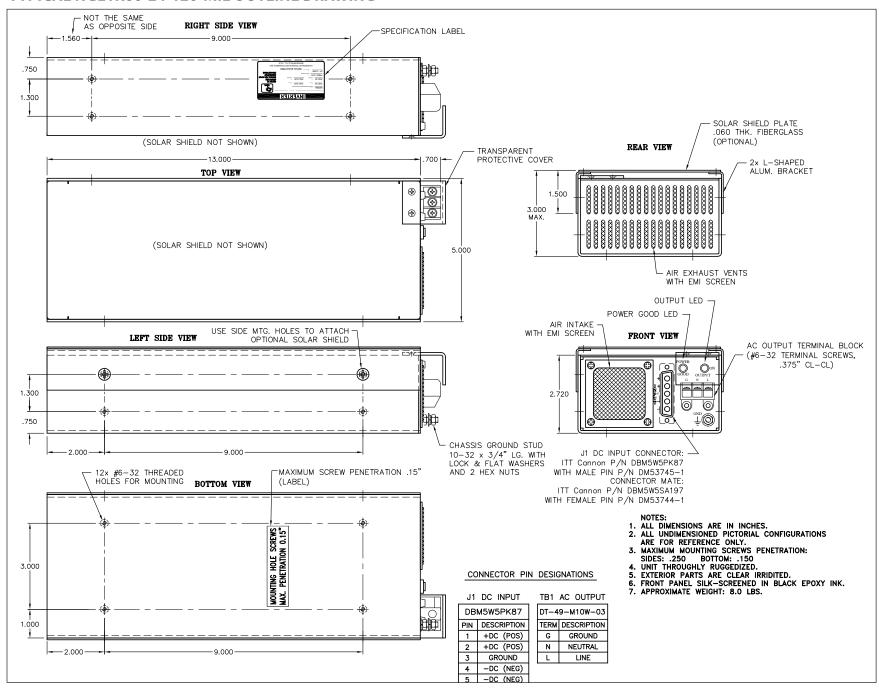
MODEL	KVA / KW	SIZE (H x W x L)	WEIGHT (LBS)
NGL600W-24-115-MIL	600 W	3.5" x 8.75" x 16"	9.5
NGL1K400-24-115-MIL	1.25 / 1	3.0" x 5.0" x 13.7"	8
GL2.5K400-24-115-MIL	2.5 / 2	5.5" x 12" x 17"	35
GL5K400-24-115-MIL	5/4	5.25" x 19" x 22"	65

TYPICAL NGL600W-24-120-MIL OUTLINE DRAWING



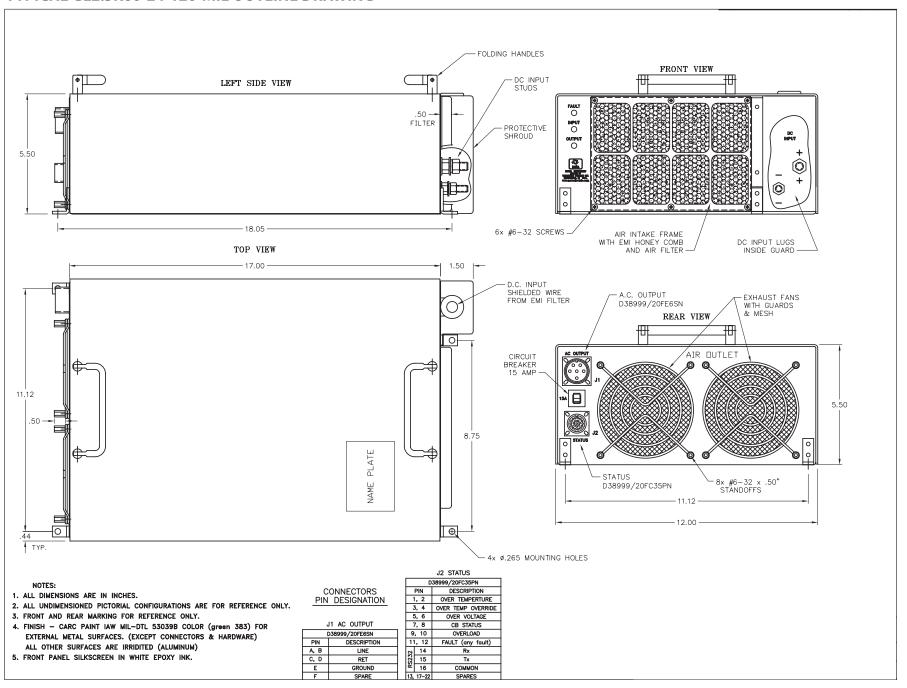


TYPICAL NGL1K60-24-120-MIL OUTLINE DRAWING





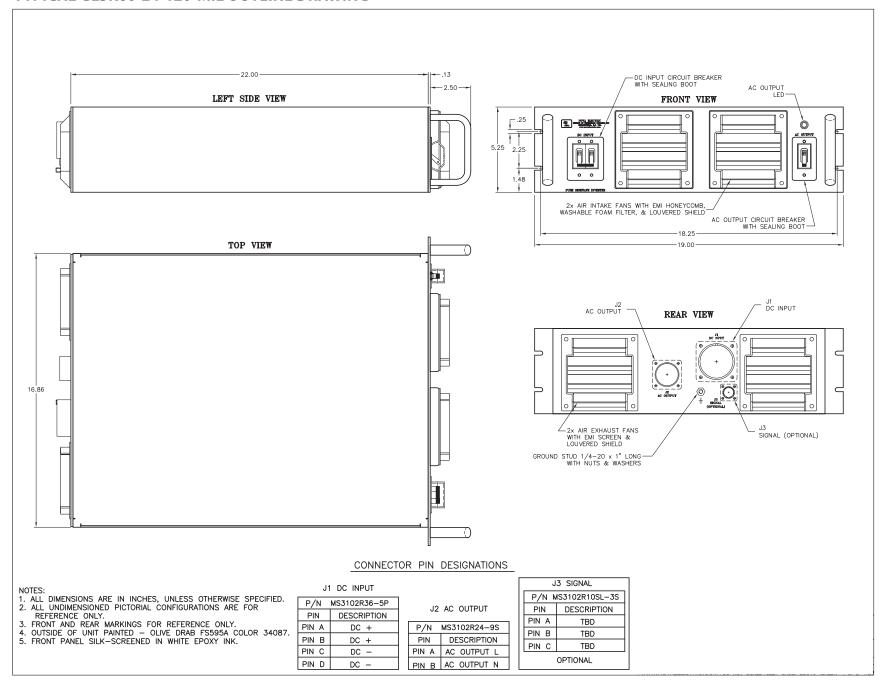
TYPICAL GL2.5K60-24-120-MIL OUTLINE DRAWING







TYPICAL GL5K60-24-120-MIL OUTLINE DRAWING







RUGGED AC POWER SYSTEMS



SELECT UNITS QUALIFIED TO MIL-STD-810, MIL-S-901, MIL-STD-1399, MIL-STD-461, MIL-STD-167, MIL-STD-740, RTCA/DO-160, AND MORE

RUGGED TRUE ONLINE UPS



500 W - 500+ KW

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

50, 60, and 400 Hz.

PURE SINEWAVE DC-AC INVERTERS



100 W - 500+ KW

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

50, 60, and 400 Hz.

SOLID-STATE FREQUENCY CONVERTERS



100 W - 500+ KW

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

50, 60, and 400 Hz.

POWER DISTRIBUTION UNITS (PDUs)



Basic, Switched, Auto-Transfer Switching, and Metered Configurations

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

CUSTOM EMI FILTERS



For MIL-STD-461 Compliance

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

RUGGED PORTABLE TRANSFORMERS



100 W - 500+ KW

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

EXTERNAL MAINTENANCEBYPASS SWITCHES (MBSs)



Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

CUSTOM DESIGNS



Designed & Built to Spec
Integrated AC & DC Capabilities
Multiple Outputs

RELIABLE AC POWER WHEN AND WHERE YOU NEED IT





- AIRBORNE
- SHIPBOARD
 - MOBILE
- RACK MOUNT & FREESTANDING

- · 50, 60, AND 400 Hz
- AIR & WATER COOLED
- · SINGLE AND THREE PHASE
 - LIGHTWEIGHT DESIGNS

