



POPULAR OPTIONS

- Ruggedization Against High Shock, Vibration and Humidity
- MS Connector Mates
- Chassis Slide Guides
- Internal Transfer Switch
 (Static or Electromechanical)
- High IP Protection for Front / Rear Panels (Typically IP32)
- Input Volt and Amp Meter Set (Available on Select Models)
- Elapsed Time Meter (Available on Select Models)
- Rugged Transit Cases and Custom Enclosures
- •Environmental Stress Screening Services

CONTACT

100 School Street, Bergenfield, NJ 07621 USA

(201) 385-0500

novaelectric.com info@novaelectric.com

Galaxy Series Rack Mount 72 VDC Nominal Input / 1-5 KVA Pure Sine Wave DC-AC Inverters



3-5 KVA 5U Chassis Shown with Optional Equipment

GENERAL OVERVIEW

The transformer-isolated Galaxy Series Rugged Inverters are designed for harsh environment, military, and rail applications, and feature an optional advanced Internal Suppression Filter Network (ISFN) to suppress the significant transients usually associated with these types of conditions. They can be built to meet MIL-STD-810, MIL-S-901, MIL-STD-1472, MIL-STD-461, MIL-STD-167 and other standards optionally. Transformer-isolated topology makes these Inverters suitable for very high inrush loads, such as motors and compressors. These models utilize the most durable components, offering maximum field-proven reliability for severe environment and high reliability applications such as:

- Rail and Trolley Applications
- Military Applications: Including HMMWV, UAV, Shipboard, Submarine, Aircraft, Mobile Power Units, Shelters, Transportable Systems, Tactical Systems, Ground Support, and more
- Heavy-Duty Industrial Applications
- Demanding Commercial Applications
- Communications Systems
- Utility Applications
- MIL-STD-810
- MIL-S-901
- MIL-STD-167





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SPECIFICATIONS

Electrical

NPUT VOLTAGE	62 – 84 VDC (Extended Range Available)			
OUTPUT VOLTAGE	See Table			
REQUENCY	50 Hz, 60 Hz, 400 Hz (±0.5%)			
REQUENCY REGULATION	±0.5% N.L. to F.L.			
OLTAGE REGULATION	±1.5% N.L. to F.L.			
FFICIENCY	Approximately 80% (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 OCK RANGE	±3 Hz, Typical (50/60 Hz models)			
RANSIENT RESPONSE	Approx. 1/4 Cycle Recovery to 95% of Nominal			
RANSIENT RESPONSE				

Environmental & Mechanical

OPERATING TEMP.	-20°C to +50°C Standard -40°C to +71°C Optional
COOLING	By Internal DC Brushless Fan
VIBRATION	Normal Shipping and Handling
SHOCK	20g, 11 mS Half Sinewave
HUMIDITY	to 95% RH Non-Condensing
EMI	Designed to Meet FCC Part 15, Class A, Can Meet MIL-STD-461 with Additional Filtering



1-2 KVA 3U Chassis

PARTIAL 60 Hz MODEL SELECTION - SPECIALTY VOLTAGES AND FREQUENCIES AVAILABLE UPON REQUEST

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE (HxWxL)	RACK PANEL HEIGHT
GS1K60-72	120	60	1 KVA	87	5.25" x 19" x 22"	-3U
GS1.5K60-72	120	60	1.5 KVA	105	5.25" x 19" x 22"	3U
GS2K60-72	120	60	2 KVA	120	5.25" x 19" x 22"	3U
GS2.5K60-72	120	60	2.5 KVA	125	8.75" x 19" x 21.25"	5U
GS3K60-72	120	60	3 KVA	130	8.75" x 19" x 21.25"	5U
GS5K60-72	120	60	5 KVA	140	8.75" x 19" x 21.25"	5U

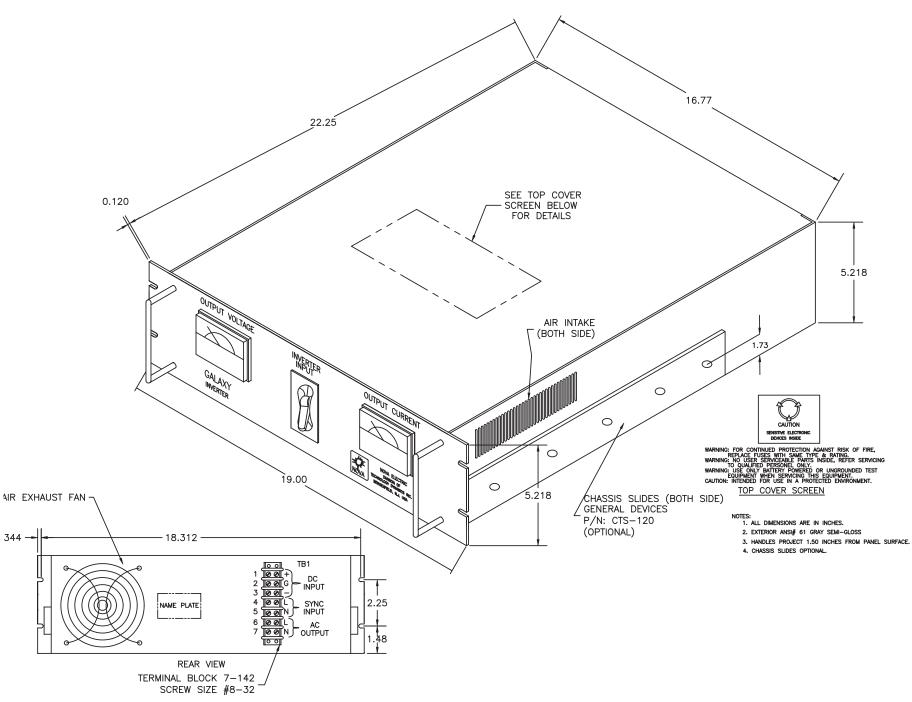
PARTIAL 50 Hz MODEL SELECTION - SPECIALTY VOLTAGES AND FREQUENCIES AVAILABLE UPON REQUEST

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE (HxWxL)	RACK PANEL HEIGHT
GS1K50-72(220)	220	50	1 KVA	87	5.25" x 19" x 22"	3U
GS1.5K60-72(220)	220	50	1.5 KVA	105	5.25″ x 19″ x 22″	3U
GS2K50-72(220)	220	50	2 KVA	120	5.25″ x 19″ x 22″	3U
GS2.5K50-72(220)	220	50	2.5 KVA	125	8.75" x 19" x 21.25"	5U
GS3K50-72(220)	220	50	3 KVA	130	8.75" x 19" x 21.25"	5U
GS5K50-72(220)	220	50	5 KVA	140	8.75" x 19" x 21.25"	5U

PARTIAL 400 Hz MODEL SELECTION - SPECIALTY VOLTAGES AND FREQUENCIES AVAILABLE UPON REQUEST

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE (HxWxL)	RACK PANEL HEIGHT
GS1.5K400-72	115	400	1.5 KVA	105	5.25″ x 19″ x 22″	3U -
GS2K400-72	115	400	2 KVA	120	5.25" x 19" x 22"	3U
GS2.5K400-72	115	400	2.5 KVA	125	8.75" x 19" x 21.25"	5U
GS3K400-72	115	400	3 KVA	130	8.75" x 19" x 21.25"	5U
GS5K400-72	115	400	5 KVA	140	8.75" x 19" x 21.25"	5U

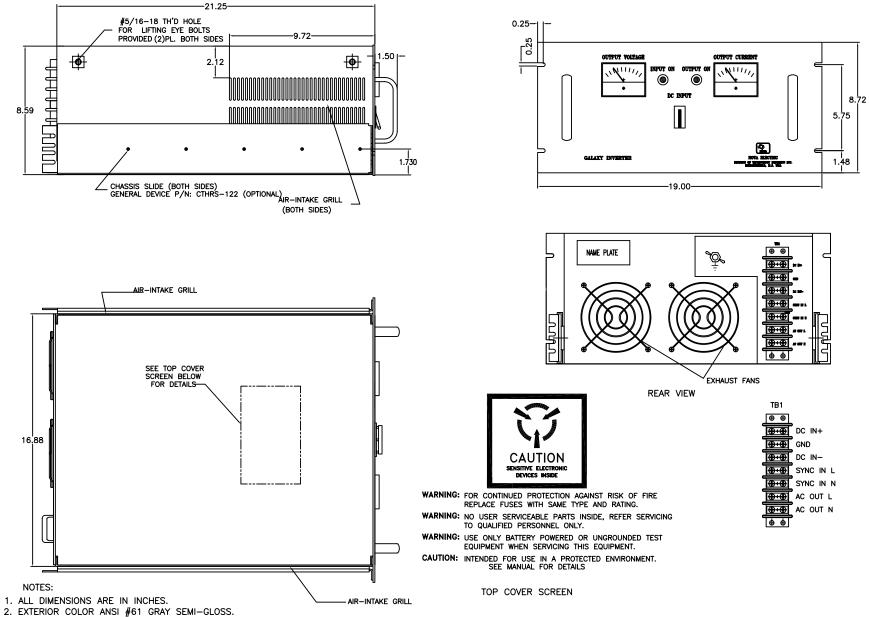
The Leader In Rugged Power Conversion Technology Since 1966





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GS SERIES 5U CHASSIS



3. RUGGEDIZED



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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.



For MIL-STD-461 Compliance Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

PURE SINEWAVE DC-AC INVERTERS



100 W – 500+ KW Rack Mount, Bulkhead Mount, and Freestanding Single and Three Phase 50, 60, and 400 Hz.

RUGGED PORTABLE TRANSFORMERS



100 W – 500+ KW Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

SOLID-STATE FREQUENCY CONVERTERS



100 W – 500+ KW Rack Mount, Bulkhead Mount, and Freestanding Single and Three Phase 50, 60, and 400 Hz.

EXTERNAL MAINTENANCE BYPASS SWITCHES (MBSs)



Rack Mount, Bulkhead Mount, and Freestanding Single and Three Phase

POWER DISTRIBUTION UNITS (PDUs)



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

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

CUSTOM DESIGNS



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



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