



- Ruggedization Against High Shock, Vibration and Humidity
- MS Connector Mates
- Shock Mounts
- Floor Mounts
- Internal Transfer Switch (Static or Electromechanical)
- High IP Protection Including Louvers on all Intake and Exhaust, as well as Fully Gasketed Breakers, Switches, and Indicators
- Input Volt and Amp Meter Set (Available on Select Models)
- Elapsed Time Meter (Available on Select Models)
- Environmental Stress Screening Services

CONTACT

100 School Street, Bergenfield, NJ 07621 USA

(201) 385-0500

novaelectric.com info@novaelectric.com

Galaxy Series Floor / Wall Mount 240 VDC Nominal Input / 0.5-35 KVA Pure Sine Wave DC-AC Inverters



- · Pure Sine Wave Output
 - · High Reliability
- · Overload, Overvoltage, and Overtemp Protected
- Transformer-Isolated For High Inrush Loads

- · Extremely Rugged Construction
 - · Conformal Coated PCBs
 - Custom Voltages and Frequencies Available
 - · All Hardware Is Stainless Steel

The Leader In Rugged Power Conversion Technology Since 1966





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GENERAL OVERVIEW

The transformer-isolated Galaxy Series Rugged Inverters are designed for harsh environment, military, steel mills, aluminum mills, cranes, and other harsh environment applications. They feature an optional advanced Internal Suppression Filter Network (ISFN) to suppress the significant transients usually associated with these types of conditions, and 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:

- Steel and Aluminum Mills
- Cranes
- 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

SPECIFICATIONS

Electrical

INPUT VOLTAGE	210 – 280 VDC (Extended Range Available)				
OUTPUT VOLTAGE	See Table				
FREQUENCY	50 Hz, 60 Hz, 400 Hz (±0.5%)				
FREQUENCY REGULATION	±0.5% N.L. to F.L.				
VOLTAGE REGULATION	±1.5% N.L. to F.L.				
EFFICIENCY	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 LOCK RANGE	±3 Hz, Typical (50/60 Hz models)				
TRANSIENT RESPONSE	Approx. 1/4 Cycle Recovery to 95% of Nominal				

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





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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)	APPROX. EFFICIENCY
GH5060-240	120	60	500 VA	90	24" x 20.75" x 7.15"	88%
GH1K60-240	120	60	1 KVA	95	24" x 20.75" x 7.15"	88%
GH2K60-240	120	60	2 KVA	130	30" x 24" x 8"	88%
GH3K60-240	120	60	3 KVA	170	30" x 24" x 8"	88%
GH5K60-240	120	60	5 KVA	200	30" x 24" x 8"	88%
GH7.5K60-240	120	60	7.5 KVA	200	36" x 24" x 16"	88%
GH10K60-240	120	60	10 KVA	260	36" x 24" x 16"	88%
GH15K60-240	120	60	15 KVA	350	42" x 30" x 21.20"	88%
GH20K60-240	120	60	20 KVA	550	54" x 36" x 16"	88%
GH25K60-240	120	60	25 KVA	700	54" x 36" x 16"	88%
GH30K60-240	120	60	30 KVA	900	60" x 48" x 16"	C/F
GH35K60-240	120	60	35 KVA	1100	60" x 48" x 16"	C/F

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)	APPROX. EFFICIENCY
GH5050-240(220)	220	50	500 VA	90	24" x 20.75" x 7.15"	88%
GH1K50-240(220)	220	50	1 KVA	95	24" x 20.75" x 7.15"	88%
GH2K50-240(220)	220	50	2 KVA	130	30" x 24" x 8"	88%
GH3K50-240(220)	220	50	3 KVA	170	30" x 24" x 8"	88%
GH5K50-240(220)	220	50	5 KVA	200	30" x 24" x 8"	88%
GH7.5K50-240(220)	220	50	7.5 KVA	200	36" x 24" x 16"	88%
GH10K50-240(220)	220	50	10 KVA	260	36" x 24" x 16"	88%
GH15K50-240(220)	220	50	15 KVA	350	42" x 30" x 21.20"	88%
GH20K50-240(220)	220	50	20 KVA	550	54" x 36" x 16"	88%
GH25K50-240(220)	220	50	25 KVA	700	54" x 36" x 16"	88%
GH30K50-240(220)	220	50	30 KVA	900	54" x 36" x 16"	C/F
GH35K50-240(220)	220	50	35 KVA	110	54" x 36" x 16"	C/F





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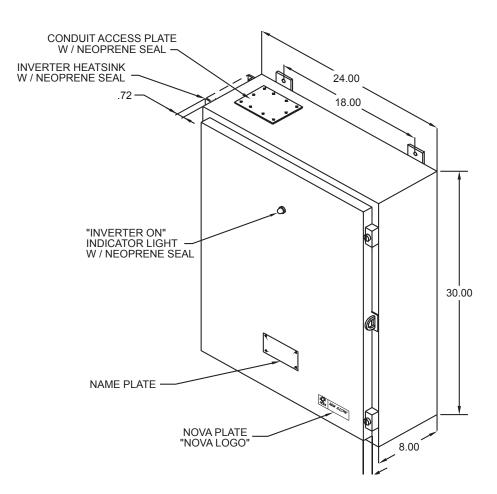
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PARTIAL 3 PHASE MODEL SELECTION - SPECIALTY VOLTAGES AND FREQUENCIES AVAILABLE UPON REQUEST

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE (HxWxL)	APPROX. EFFICIENCY
GH1.5K3/5-240	220/380	50	1.5 KVA	150	24" x 20.75" x 7.15"	88%
GH1.5K3/6-240	120/208	60	1.5 KVA	150	24" x 20.75" x 7.15"	88%
GH1.5K3/4-240	115/200	400	1.5 KVA	120	24" x 20.75" x 7.15"	88%
GH3K3/5-240	220/380	50	3 KVA	180	30" x 24" x 12"	88%
GH3K3/6-240	120/208	60	3 KVA	160	30" x 24" x 12"	88%
GH3K3/4-240	115/200	400	3 KVA	140	30" x 24" x 12"	88%
GH6K3/5-240	220/380	50	6 KVA	220	30" x 24" x 16"	88%
GH6K3/6-240	120/208	60	6 KVA	200	30" x 24" x 16"	88%
GH6K3/4-240	115/200	400	6 KVA	180	30" x 24" x 16"	88%
GH7.5K3/5-240	220/380	50	7.5 KVA	260	30" x 24" x 16"	88%
GH7.5K3/6-240	120/208	60	7.5 KVA	240	30" x 24" x 16"	88%
GH15K3/5-240	220/380	50	15 KVA	C/F	C/F	88%
GH15K3/6-240	120/208	60	15 KVA	C/F	C/F	88%
GH15K3/4-240	115/200	400	15 KVA	C/F	C/F	88%
GH30K3/5-240	220/380	50	30 KVA	C/F	54" x 36" x 36"	88%
GH30K3/6-240	120/208	60	30 KVA	C/F	54" x 36" x 36"	88%
GH30K3/4-240	115/200	400	30 KVA	C/F	54" x 36" x 36"	88%

TYPICAL 2-5 KVA WALL / FLOOR MOUNT GALAXY SERIES 240 VDC PURE SINE WAVE DC-AC INVERTER OUTLINE DRAWING



NOTES:

- 1. INVERTER CABINET HAS (4) MTG EARS THE BOTTOM (2) CANNOT BE SEEN IN THIS VIEW
- 2. FINISH: ANSI #61 GREY, SEMIGLOSS
- 3. ENCLOSURE TYPE: NEMA 12





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 MAINTENANCE BYPASS 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 SEVERE ENVIRONMENT PRODUCTS



- AIRBORNE
- SHIPBOARD
 - MOBILE
- RACK MOUNT & FREESTANDING

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