



POPULAR OPTIONS

- ·Ruggedization Against Shock, Vibration, And Humidity
- MS Connector Mates
- · Multiple Output Outlets
- · Shock Mounts
- Floor Mounts
- ·Custom enclosures
- · 400 Hz Input And / Or Output
- ·CAD Free Connectors
- Non-PVC Wiring
- High IP Protection Including Louvers On All Intake And Exhaust, As Well As Fully Gasketed Breakers, Switches, And Indicators.
- · AUX DC Outputs
- ·Input Volt and Amp Meter Set (Available On Select Models)
- · Elapsed Time Meter (Available On Select Models)
- ·RTCA/DO-160G Compliant Aircraft Grade Package
- Power Distribution Units (PDUs)
- Environmental Stress
 Screening Services

CONTACT

100 School Street, Bergenfield, NJ 07621 USA

(201) 385-0500

novaelectric.com info@novaelectric.com

GHFC Series 1.5-3 KVA Wall / Floor Mount Cabinet Solid-State Three-Phase Frequency Converters



GENERAL OVERVIEW

Nova frequency converters are high-reliability power sources specifically designed for demanding applications in high shock, vibration, humidity, and EMI environments. They can be built to meet MIL-STD-810, MIL-STD-167, MIL-S-901, MIL-STD-1472, MIL-STD-461, and other standards optionally. These models are especially suitable for severe environment and high reliability applications such as:

- Military Applications: HMMWV, UAV, Shipboard, Submarine, Aircraft and Mobile Power Units, Shelters
- Aircraft Power
- Communications Systems
- Cellular Sites
- European Power / Export Testing
- Power Conditioning & Frequency Stabilization
- U.S. Power Abroad
- Railroad Signaling Power

The Leader In Rugged Power Conversion Technology Since 1966





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SPECIFICATIONS

Electrical

DOWED DATINGS	1.5 10/14 2 10/14		
POWER RATINGS	1.5 KVA – 3 KVA		
INPUT VOLTAGE	Most Standard AC Voltages Including 115, 120, 200, 208, 220, 240, 277, 380, and 480 (Available in Single and Three-Phase Configurations)		
OUTPUT VOLTAGE	Most Standard Three-Phase AC Voltages Including 120/208, 115/200, 220/380, and 277/480		
FREQUENCY	50 Hz, 60 Hz, or 400 Hz (±0.5%)		
FREQUENCY REGULATION	± 0.5% NL to FL (Crystal Available)		
FREQUENCY TRANSIENTS	None		
VOLTAGE REGULATION	± 1.5% N.L. to F.L.		
EFFICIENCY	Approximately 85-95% (Depending on Model)		
TOTAL HARMONIC DISTORTION	3% Typical, 5% Max		
OVERLOAD	120% Typical Power Factor: 0.7 Lead to 0.7 Lag		
INPUT CIRCUIT PROTECTION	Circuit Breaker / Fuses, Transient Suppressors Output		
CIRCUIT PROTECTION	Current Limit, Short Circuit Protection, Thermal Protection, and Semi-Conductor Protection		
PHASE ROTATION	Any (Three-Phase Models)		

Environmental

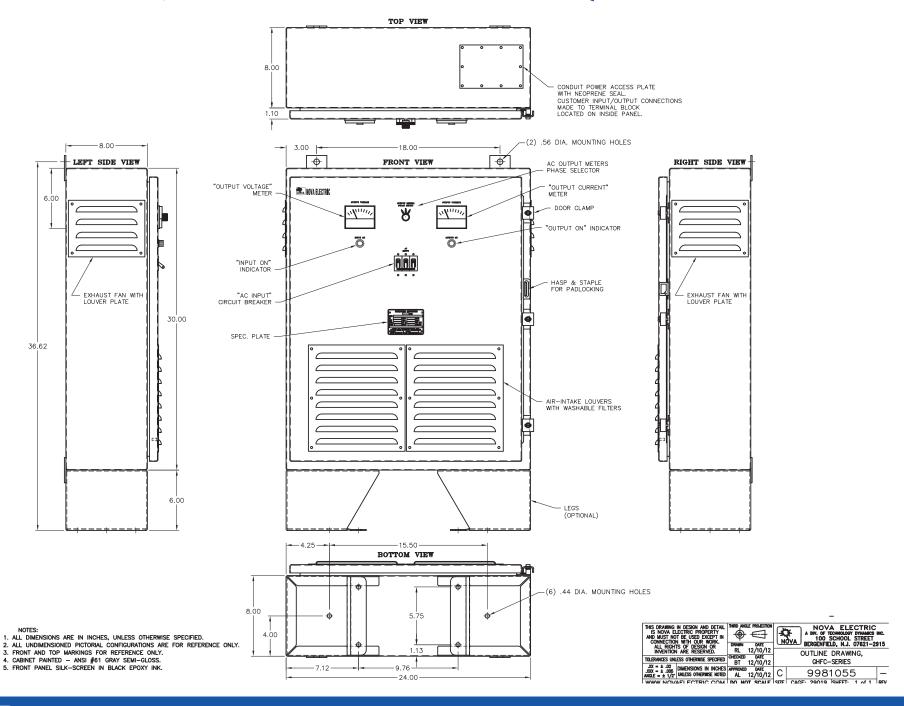
Environmental				
OPERATING TEMP.	-20°C to +50°C Standard -40°C to +71°C Optional (On Selected Models)			
COOLING	Forced Air by Internal Fan			
VIBRATION	Normal Shipping and Handling			
SHOCK	20g, 11 mS Half Sinewave Designed to Meet MIL-STD-810 Optionally			
ELEVATION	10,000 ft. Typical			
HUMIDITY	To 95% RH Non-Condensing Designed to Meet MIL-STD-810. All Boards Conformal Coated with Acrylic MIL-I-46058 Type R.			
AUDIBLE NOISE	65 dBA at 5 ft. Typical			
EMI	Designed to Meet FCC Part 15, Class A. Designed to Meet MIL-STD-461 with Optional Additional Filtering			
МТВБ	30,000+ Hours Typical per MIL-HDBK-217			
MTTR	Less than 30 Minutes			

PARTIAL MODEL SELECTION

MODEL	KVA	OUTPUT VOLTAGE	OUTPUT FREQUENCY (Hz)	WEIGHT (LB)	SIZE (HxWxL)
GHFC1.5K3/5	1.5	220/380	50	130	30" x 24" x 8"
GHFC1.5K3/6	1.5	120/208	60	130	30" x 24" x 8"
GHFC1.5K3/4	1.5	115/200	400	130	30" x 24" x 8"
GHFC2K3/5	2	220/380	50	140	30" x 24" x 8"
GHFC2K3/6	2	120/208	60	140	30" x 24" x 8"
GHFC2K3/4	2	115/200	400	140	30" x 24" x 8"
GHFC3K3/5	3	220/380	50	145	30" x 24" x 8"
GHFC3K3/6	3	120/208	60	145	30" x 24" x 8"
GHFC3K3/4	3	115/200	400	145	30" x 24" x 8"

*Specifications subject to change without notice.

TYPICAL GHFC SERIES WALL / FLOOR MOUNT CABINET SOLID-STATE THREE PHASE FREQUENCY CONVERTERS 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 FREQUENCY CON-



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





- AIRBORNE
- SHIPBOARD
 - MOBILE
- RACK MOUNT & FREESTANDING

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