



POPULAR OPTIONS

- Ruggedization Against Shock,
 Vibration, And Humidity
- MS Connector Mates
- Multiple Output Outlets
- ·Chassis Slide Guides
- Rugged Transit Cases And 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.
- ·Input Volt and Amp Meter Set (Available On Select Models)
- Elapsed Time Meter (Available On Select Models)
- ·Power Distribution Units (PDUs)
- Environmental Stress
 Screening Services

CONTACT

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GLFC-Series 1.5-4.5 KVA Rack Mount Solid-State Three Phase Frequency Converters





GLFC-Series 3U Chassis

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



NOVA ELECTRIC



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SPECIFICATIONS

Electrical

POWER RATINGS	1.5 KVA – 4.5 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

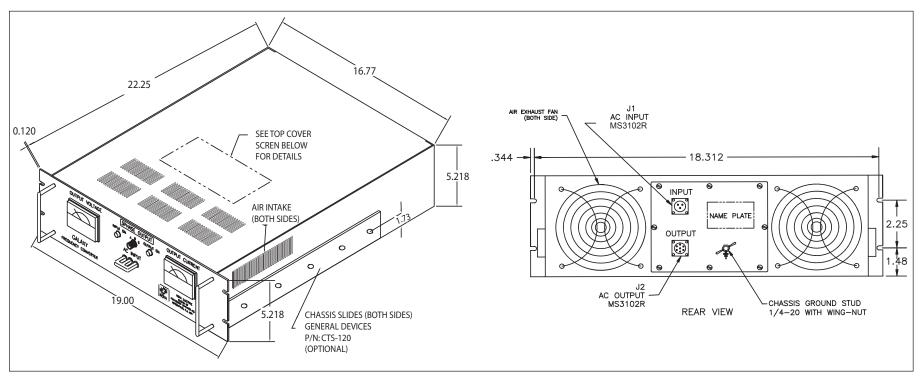
Environmental					
OPERATING TEMP.	-20°C to +50°C Standard -40°C to +71°C Optional (On Selected Models)				
COOLING	Forced Air by Internal Fan				
VIBRATION	Normal Shipping and Handling				
SHOCK	20g, 11 mS Half Sinewave Designed to Meet MIL-STD-810 Optionally				
ELEVATION	10,000 ft. Typical				
HUMIDITY	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				
MTBF	30,000+ Hours Typical per MIL-HDBK-217				
MTTR	Less than 30 Minutes				

PARTIAL MODEL SELECTION

MODEL	KVA	KW	OUTPUT VOLTAGE	OUTPUT FREQUENCY (Hz)	WEIGHT (LB)	SIZE (HxWxL)
GLFC1.5K3/5-XX-220/380	1.5	1.2	220/380	50	96	5.25" x 19" x 22.5"
GLFC1.5K3/6-XX-120/208	1.5	1.2	120/208	60	96	5.25" x 19" x 22.5"
GLFC1.5K3/4-XX-115/200	1.5	1.2	115/200	400	118	5.25" x 19" x 22.5"
GLFC2K3/5-XX-220/380	2	1.6	220/380	50	118	5.25" x 19" x 22.5"
GLFC2K3/6-XX-120/208	2	1.6	120/208	60	118	5.25" x 19" x 22.5"
GLFC2K3/4-XX-115/200	2	1.6	115/200	400	118	5.25" x 19" x 22.5"
GLFC3K3/5-XX-220/380	3	2.4	220/380	50	118	5.25" x 19" x 22.5"
GLFC3K3/6-XX-120/208	3	2.4	120/208	60	118	5.25" x 19" x 22.5"
GLFC3K3/4-XX-115/200	3	2.4	115/200	400	118	5.25" x 19" x 22.5"
GLFC4.5K3/5-XX-220/380	4.5	3.6	220/380	50	130	8.75" x 19" x 24"
GLFC4.5K3/6-XX-120/208	4.5	3.6	120/208	60	130	8.75" x 19" x 24"
GLFC4.5K3/4-XX-115/200	4.5	3.6	115/200	400	130	8.75" x 19" x 24"

Replace "XX" Shown In Model No. With Desired Nominal Input Voltage (e.g., 120, 120/208, 220, 220/380, 115, 115/200, etc.)

TYPICAL GLFC SERIES 3U RACK MOUNT SOLID-STATE THREE PHASE FREQUENCY CONVERTERS OUTLINE DRAWING

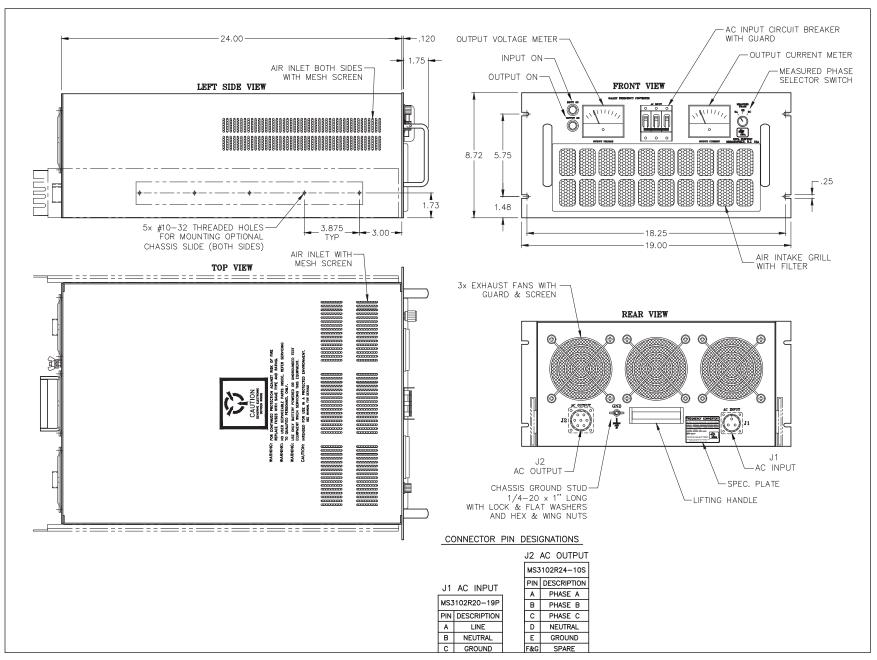


All Dimensions Shown In Inches





TYPICAL GLFC SERIES 5U RACK MOUNT SOLID-STATE THREE PHASE FREQUENCY CONVERTERS OUTLINE DRAWING



All Dimensions Shown In Inches







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

