RUGGED
GALAXY™ SERIES
SOLID-STATE FREQUENCY CONVERTERS
1.5 - 2 - 3KVA

APPLICATIONS

Utilizing field proven technology, this family of rugged solid-state sinewave frequency converters is suitable for harsh environments and can be customized for unique applications including:

- Shelters
- Tactical Systems
- Shipboard Power
- MIL-STD-810
- MIL-STD-901
- HMMWVs
- Mobile Systems
- Ground support
- MIL-STD-461
- MIL-STD-1399

NOVA ELECTRIC
www.novaelectric.com
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ISO 9002
FILE: A5269

A Leader in Frequency Converter Technology since 1966 - 500VA to 300KVA

MADE IN THE USA

RUGGED THREE-PHASE SINEWAVE FREQUENCY CONVERTER

CAN MEET MIL-STD-810, MIL-STD-1399, MIL-STD-901, MIL-STD-704, & MIL-STD-461 OPTIONALLY

APPLICATIONS

The rugged Galaxy Series Converter is designed to provide years of reliable service in harsh shock, vibration, humidity, and EMI environments. Military applications include HMMVW, UAV, Shipboard, Submarine, Shelter, and Mobile Power Units.

OPTIONS

- Ruggedization against shock, vibration and humidity to MIL-STD-810
- MS Connector Mates
- Chassis Slides
- Output Frequency Meter
- Elapsed Time Meter

SPECIFICATIONS

ELECTRICAL

Input: Any standard 1Ø or 3Ø (specify)
Output: 120/208, 220/380 or 115/200 VAC
Frequency: 50, 60, or 400Hz (specify)
Voltage Regulation: ± 2% NL to FL
Frequency Regulation: ± 0.5% NL to FL
Harmonic Distortion: 5% THD
Power Factor: 0.7 lead to 0.7 lag
Efficiency at full load: 75-80% typical
Overload: 125% for 5 minutes

PROTECTIVE FEATURES

Current Limit, Short Circuit Protection, Thermal Protection, and Semiconductor Protection

ENVIRONMENTAL

Operating Temp.: -20˚ to +50˚C
Storage Temp. Range: -40˚ to +60˚C
Humidity: to 95% non-condensing
Elevation: 15,000 Ft. (4.572m) operating; 40,000 ft. (12.192m) non-operating
Shock: 30g for 20mS
Audible Noise: Less than 55 dbA at 5 ft.

HIGH-RELIABILITY

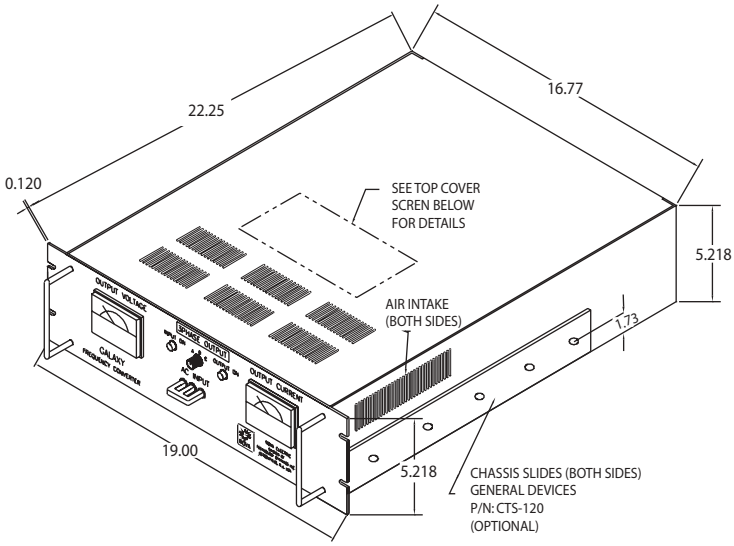
MTBF: 30,000 Hours per MIL-HDBK-217
MTBR: 30 Minutes (assuming qualified tech)

STANDARD INDICATORS

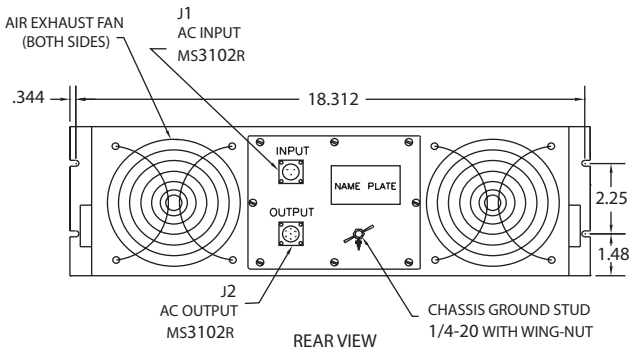
Output Volt & Amp Meters, Input & Output Power On Lamps, Phase-Selector Switch

MODEL SELECTION

PARTIAL MODEL SELECTION	KVA	OUTPUT	WEIGHT
GLFC1.5K3/6	1.5	120/208VAC, 60Hz	85
GLFC1.5K3/5	1.5	220/380VAC, 50Hz	85
GLFC1.5K3/4	1.5	115/200VAC, 400Hz	85
GLFC2K3/6	2	120/208VAC, 60Hz	90
GLFC2K3/5	2	220/380VAC, 50Hz	90
GLFC2K3/4	2	115/200VAC, 400Hz	90
GLFC3K3/6	3	120/208VAC, 60Hz	105
GLFC3K3/5	3	220/380VAC, 50Hz	105
GLFC3K3/4	3	115/200VAC, 400Hz	105



NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
2. EXTERIOR ANSI# 61 GRAY SEMI-GLOSS.
3. HANDLES PROJECT 1.50 INCHES FROM PANEL SURFACE.
4. CHASSIS SLIDES OPTIONAL



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