

RUGGED GALAXY™ SERIES SOLID-STATE FREQUENCY CONVERTERS SINGLE PHASE OUTPUT 1 - 30KVA



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

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ISO 9002

FILE: A5269

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

MADE IN THE USA

RUGGED SINGLE-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 Frequency 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, Mobile Power Units, and Aircraft.

OPTIONS

- Ruggedization against shock, vibration and humidity to MIL-STD-810
- MS Connector Mates
- Chassis Slides
- Output Frequency Meter
- Elapsed Time Meter
- Custom Cabinets/Enclosures
- Output Circuit Breaker

SPECIFICATIONS

ELECTRICAL

AC Input: Any standard 1Ø or 3Ø (specify)
 AC Output: 115, 120, 208, 220 or 240 (specify)
 Frequency: 50, 60, or 400Hz (specify)
 Voltage Regulation: $\pm 1\%$ NL to FL
 Frequency Regulation: $\pm 0.5\%$ NL to FL
 Harmonic Distortion: 5% THD
 Power Factor: 0.7 lead to 0.7 lag
 Efficiency at full load: 85% typical
 Overload: 125% for 5 minutes

PROTECTIVE FEATURES

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

ENVIRONMENTAL

Operating Temp.: -20° to $+50^{\circ}\text{C}$
 Storage Temp. Range: -40° to $+71^{\circ}\text{C}$
 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)

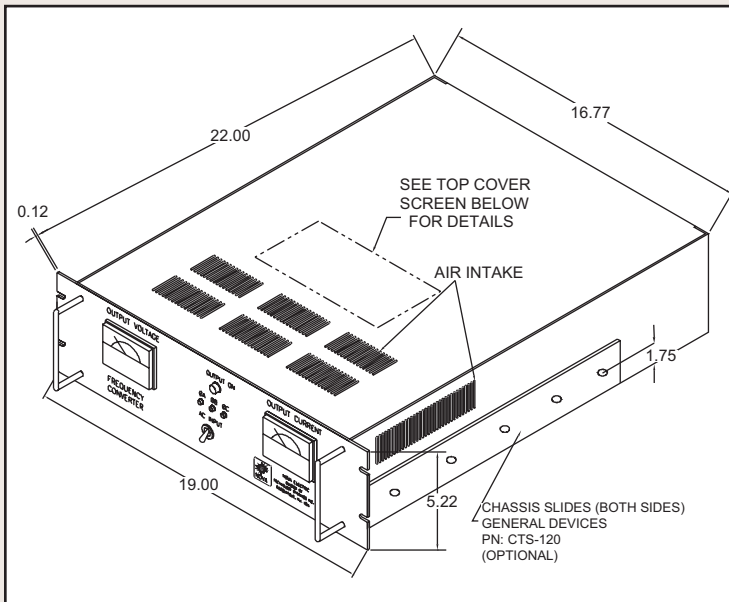
STANDARD INDICATORS

Output Volt & Amp Meters, Input Power On Lamps.

MODEL SELECTION

Partial Model Number	KVA	Output Voltage	Output Frequency Hz	Weight (Lbs.)	Inch Dimensions (H x W x D)
GSFC1K50 GSFC1K60 GSFC1K400	1	220 120 115	50 60 400	110 100 95	5.25" x 19" x 22.25"
GSFC2K50 GSFC2K60 GSFC2K400	2	220 120 115	50 60 400	125 120 115	5.25" x 19" x 22.25"
GSFC3K50 GSFC3K60 GSFC3K400	3	220 120 115	50 60 400	185 180 170	8.75" x 19" x 22"
GSFC5K50 GSFC5K60 GSFC5K400	5	220 120 115	50 60 400	210 200 190	8.75" x 19" x 24"
GSFC7.5K50 GSFC7.5K60 GSFC7.5K400	7.5	220 120 115	50 60 400	445 425 400	30" x 36" x 17"

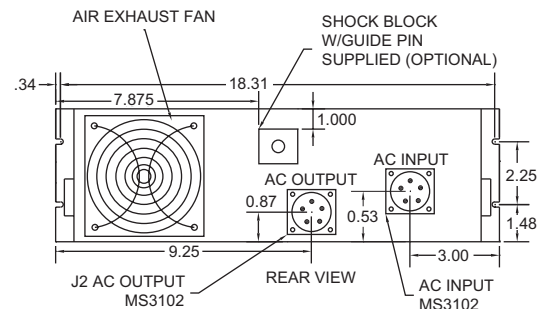
Partial Model Number	KVA	Output Voltage	Output Frequency Hz	Weight (Lbs.)	Inch Dimensions (H x W x D)
GSFC10K50 GSFC10K60 GSFC10K400	10	220 120 115	50 60 400	470 450 425	36" x 36" x 17"
GSFC15K50 GSFC15K60 GSFC15K400	15	220 120 115	50 60 400	550 525 400	36" x 36" x 17"
GSFC20K50 GSFC20K60 GSFC20K400	20	220 120 115	50 60 400	C/F C/F C/F	C/F C/F C/F
GSFC25K50 GSFC25K60 GSFC25K400	25	220 120 115	50 60 400	C/F C/F C/F	C/F C/F C/F
GSFC30K50 GSFC30K60 GSFC30K400	30	220 120 115	50 60 400	C/F C/F C/F	C/F C/F C/F



TYPICAL GSFC 1-2 KVA CHASSIS

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. EXTERIOR ANSII# 61 GRAY SEMI-GLOSS.
3. HANDLES PROJECT 1.50 INCHES FROM PANEL SURFACE.



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