

# RUGGED GALAXY™ SERIES PURE-SINEWAVE DC-AC INVERTERS

Input: 62-84 VDC  
Output: 120V or 220V 1Ø  
50, 60, or 400 Hz  
Power: 120 VA - 35+ KVA



## APPLICATIONS

Utilizing field proven technology, this family of rugged pure sinewave DC-AC Inverters is suitable for harsh environments and can be customized for unique applications including:

- Shelters
- Rail
- Tactical Systems
- Ground support
- MIL-STD-810
- Utility Applications
- Mobile Systems
- MIL-STD-167
- MIL-STD-461



**NOVA ELECTRIC**  
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A Leader in DC-AC Inverter Technology since 1966 - 120VA to 35+KVA

MADE IN USA

# RUGGED PURE SINEWAVE DC-AC INVERTER

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

## APPLICATIONS

The transformer isolated Galaxy Series Inverters are extremely rugged by design, and feature an optional advanced Internal Suppression Filter Network (ISFN) to suppress the significant transients usually associated with rail and military applications. The units are also extremely reliable, designed to provide many years of service in harsh shock, vibration, humidity, and EMI environments.

## HIGH-RELIABILITY

MTBF: 100,000 Hours  
MTBR: 30 Minutes (assuming qualified tech)

## STANDARD INDICATORS

- Output Volt & Amp Meters
- Input Power On Lamp

## SPECIFICATIONS

### ELECTRICAL

Input: 62 - 84VDC  
Output: specify 120 or 220VAC 1Ø  
**(Three-Phase Output Optional)**  
Frequency: Specify 50, 60, or 400Hz  
Voltage Regulation:  $\pm 2\%$  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: 75-88% typical  
Overload: 125% for 5 minutes

### PROTECTIVE FEATURES

Current Limit, Short Circuit Protection, Thermal Protection, Semiconductor Protection, and (Optional) ISFN

### ENVIRONMENTAL

Operating Temp.:  $-20^{\circ}$  to  $+50^{\circ}$ C (extended range optional)  
Storage Temp. Range:  $-40^{\circ}$  to  $+71^{\circ}$ C  
Humidity: to 95% non-condensing  
Elevation: 15,000 Ft. (4,572m) operating;  
40,000 ft. (12,192m) non-operating  
Shock: 20g for 11mS half sinewave  
Audible Noise: Less than 55 dbA at 5 ft.

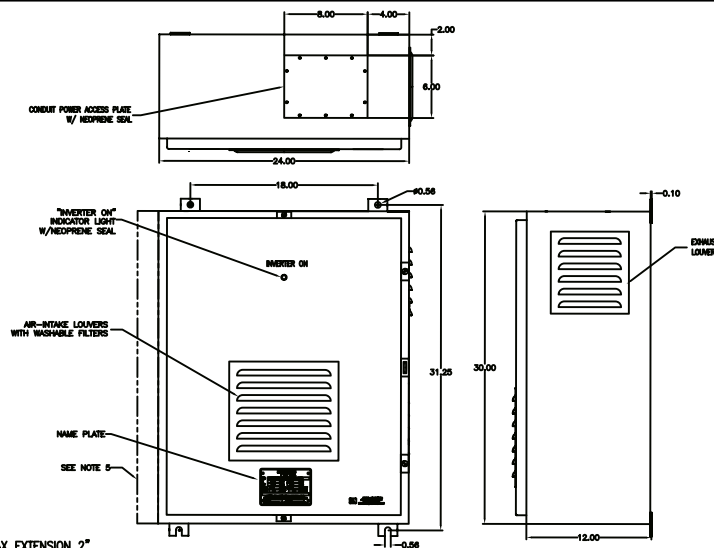
### OPTIONS

- Ruggedization against shock, vibration and humidity
- Additional Meters
- Input Transient Filter (ISFN)
- Transfer Switch
- Floor Mount Feet

## PARTIAL MODEL SELECTION

60 HZ MODELS	OUTPUT VAC	OUTPUT FREQ(HZ)	CONTINUOUS OUPUT POWER	APPROX. WEIGHT(LB)	SIZE (HxWxL) INCHES
GH5060-72	120	60	500VA	95	24"x20.75"x7.15"
GH1K60-72	120	60	1KVA	95	24"x20.75"x7.15"
GH2K60-72	120	60	2KVA	120	30"x24"x8"
GH3K60-72	120	60	3KVA	130	30"x24"x12"
GH5K 60-72	120	60	5KVA	140	30"x24"x12"
GH7.5K60-72	120	60	7.5KVA	175	36"x24"x16"
GH10K60-72	120	60	10 KVA	260	36"x24"x16"
GH15K60-72	120	60	15 KVA	350	42"x30"x21.20"
GH20K60-72	120	60	20 KVA	C/F	42"x30"x21.20"
GH25K60-72	120	60	25KVA	C/F	54"x36"x16"
GH30K60-72	120	60	30KVA	C/F	54"x36"x16"
GH35K60-72	120	60 </td <td>35KVA</td> <td>C/F</td> <td>54"x36"x16"</td>	35KVA	C/F	54"x36"x16"

Typical 3-6KVA chassis



#### NOTES:

1. INVERTER CABINET HAS (4) MTG EARS.
2. FINISH: ANSI #61 GRAY, SEMI-GLOSS.
3. ENCLOSURE TYPE: NEMA 12, P/N SCE-302410LP
4. CERTAIN APPLICATIONS REQUIRE EXTERNAL HEATSINK ON LEFT SIDE - MAX EXTENSION 2".

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