

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

Input: 210-280 VDC

Output: 120V or 220V 1Ø  
50, 60, or 400 Hz

Power: 500 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
- Tactical Systems
- Ground support
- MIL-STD-810
- MIL-S-901
- Steel Mills
- Aluminum Mills
- Crane Applications
- MIL-STD-461
- MIL-STD-1399



**NOVA ELECTRIC**  
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A Leader in DC-AC Inverter Technology since 1966 - 500VA to 500+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

- Aluminum Mills
- Steel Mills
- Cranes
- Heavy Industry
- Military Applications

## STANDARD FEATURES

- Pure Sinewave Output
- Internal Transient Suppression Filter
- Network for input voltage transients
- High reliability, MTBF exceeds 100,000 hrs
- O.V, O.L, and O.T protected
- MTTR below 30 minutes
- Withstands high reactive load
- Tight voltage and frequency regulation
- Boards are conformal coated

## ELECTRICAL

Input: 240VDC (Extended range available)  
Output: See table  
Frequency: 50Hz, 60Hz, or 400Hz ( $\pm 0.5\%$ )  
Voltage Regulation:  $\pm 1.5\%$  NL to FL  
Frequency Regulation:  $\pm 0.5\%$  NL to FL  
Reactive Load: 0.75 lead to 0.75 lag  
Efficiency: Approximately 88%  
(depending on model)  
Overload: 125% for 5 minutes  
Distortion: 5% THD, 3% Single Harmonic  
Overload: 125% for 5 minutes  
Overload Protection Range: Automatic  
overload & short circuit protection  
Sync & Phase Lock Range:  $\pm 3\text{Hz}$  Typical  
Transient Response: Approx. 1/4 cycle  
recovery to 95% of nominal

## SPECIFICATIONS

## ENVIRONMENTAL

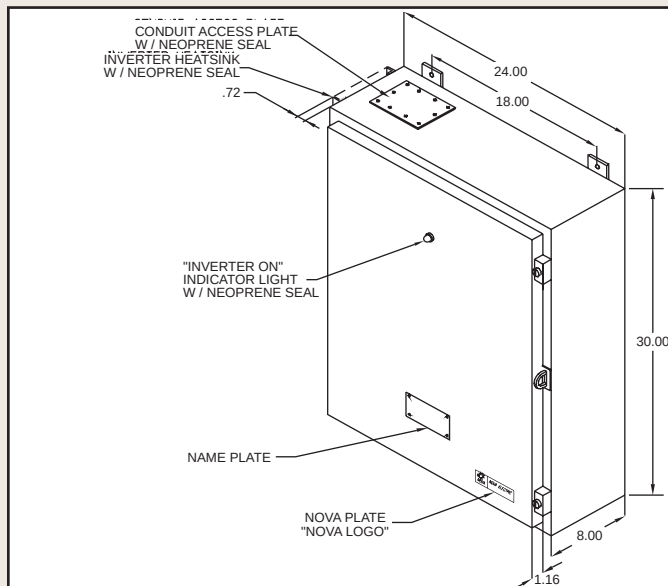
Operating Temp.:  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$   
Cooling: By internal DC brushless fan  
Vibration: Normal shipping and handling  
Shock: 20g for 11mS half sinewave  
Humidity: To 95% RH non-condensing  
EMI: Designed to meet FCC Part 15 Class A.  
Can meet MIL-STD-461 with additional  
filtering

## AVAILABLE OPTIONS

- Ruggedized to meet MIL-STD-810 shock, vibration and humidity ("R" option)
- Wide temperature range  $-40^{\circ}\text{C}$  to  $+71^{\circ}\text{C}$  (with derating)
- Special output voltages and frequencies
- MS Connectors or outlets
- Custom painting and marking
- Handles
- High inrush for motor start
- Transfer switch to alternate AC source
- Chassis slides
- Switchable 50/60 Hz output
- Output fault alarm (relay closure)
- RS232 or SNMP Communication

## MODEL SELECTION

| MODELS       | OUTPUT VAC | OUTPUT FREQ | OUTPUT POWER | WEIGHT (LBS) | DIMENSIONS H x W x D (Inches) | APPROX. EFFICIENCY |
|--------------|------------|-------------|--------------|--------------|-------------------------------|--------------------|
| GH5060-240   | 120        | 60          | 500 VA       | 90           | 24.00 x 20.75 x 7.15          | 88%                |
| GH1K60-240   | 120        | 60          | 1 KVA        | 95           | 24.00 x 20.75 x 7.15          | 88%                |
| GH2K60-240   | 120        | 60          | 2 KVA        | 130          | 30.00 x 24.00 x 8.00          | 88%                |
| GH3K60-240   | 120        | 60          | 3 KVA        | 170          | 30.00 x 24.00 x 12.00         | 88%                |
| GH5K60-240   | 120        | 60          | 5 KVA        | 200          | 30.00 x 24.00 x 12.00         | 88%                |
| GH7.5K60-240 | 120        | 60          | 7.5 KVA      | 200          | 36.00 x 24.00 x 16.00         | 88%                |
| GH10K60-240  | 120        | 60          | 10 KVA       | 260          | 36.00 x 24.00 x 16.00         | 88%                |
| GH15K60-240  | 120        | 60          | 15 KVA       | 350          | 42.00 x 30.00 x 21.20         | 88%                |
| GH20K60-240  | 120        | 60          | 20 KVA       | 550          | 54.00 x 36.00 x 16.00         | 88%                |
| GH25K60-240  | 120        | 60          | 25 KVA       | 700          | 54.00 x 36.00 x 16.00         | 88%                |
| GH30K60-240  | 120        | 60          | 30 KVA       | 900          | 60.00 x 48.00 x 16.00         | C/F                |
| GH35K60-240  | 120        | 60          | 35 KVA       | 1100         | 60.00 x 48.00 x 16.00         | C/F                |



## TYPICAL GH2K60-240 CHASSIS

### NOTES:

1. INVERTER CABINET HAS (4) MTG EARS THE BOTTOM (2) CANNOT BE SEEN IN THIS VIEW
2. FINISH: ANSI #61 GREY, SEMIGLOSS
3. ENCLOSURE TYPE: NEMA 12

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