

# **NGL MODELS**

## **LIGHTWEIGHT INVERTERS GALAXY SERIES**

### **FOR SEVERE ENVIRONMENT APPLICATIONS WORLDWIDE**

### **300VA - 1500VA**



#### **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:

- ☐ Military programs
- ☐ Communications
- ☐ Cellular sites
- ☐ Shelters
- ☐ SATCOM terminals
- ☐ AC Power from battery
- ☐ HMMWV applications
- ☐ TV & Radio vans
- ☐ Shipboard applications
- ☐ Rapid transit & Rail Applications



**NOVA ELECTRIC**  
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**ISO 9001**

A Leader in DC-AC Inverter Technology since 1966 - 500VA to 500+KVA

MADE IN THE USA

# LIGHT WEIGHT INVERTERS GALAXY SERIES

## FEATURES

- Pure Sinewave Output
- Compact Size
- Light Weight design
- Extremely Rugged Construction
- High Reliability: MTBF exceeds 100,000 hours
- OV, O.L. and O.T. protected
- MTTR below 30 minutes
- Withstands highly reactive load
- Tight Voltage and Frequency Regulation
- Conformal Coated Boards

## AVAILABLE OPTIONS

- Ruggedized to meet MIL-STD-810 shock, vibration and humidity ("R" option)
- Wide temperature range -30°C to +60°C
- Special output voltages and frequencies
- Provision for 3 Phase connection with 2 more identical units
- 19" Panel mount ("P1" option)
- MS Connectors or outlets
- Custom painting and marking
- Handles
- High inrush for motor start
- Transfer switch to alternate AC source
- Wall mount plate ("W" option)
- Sync & Phase Lock (Range: +/-3 Hz)
- Rail output voltages & frequencies (91.66, 100, or 250 Hz)

## ELECTRICAL

Input Voltage: See chart  
 Frequency: 50 Hz, 60 Hz, 400 Hz (+/-0.5%)  
 Voltage Regulation: +/-1.5% N.L. to F.L.  
 Reactive Load: 0.75 Lead to 0.75 Lag  
 Overload: 125% for 5 minutes  
 Isolation: 1500 Volt

## ENVIRONMENTAL

Operating Temp: -20°C to +50°C Std  
 -30°C to +60°C Optional  
 Storage Temp: -40°C to +71°C  
 Cooling: By internal DC brushless fan  
 Vibration: Normal shipping and handling  
 Shock: 20g, 11 mS half sinewave  
 Humidity: To 95% RH non-condensing  
 EMI: Designed to meet FCC Part 15, Class A; Can meet MIL-STD-461 with optional filtering

## SPECIFICATIONS

Output Voltage: See Table Below  
 Frequency Regulation: +/-0.5% N.L. to F.L.  
 Efficiency: Approximately 80% (depending on model)  
 Distortion: 5% THD, 3% Single Harmonic  
 Overload Protection Range:  
 Automatic overload & short circuit protection Transient Response:  
 Approx. 3 cycle recovery to 95% of nominal

MODELS	CONTINUOUS OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE (HxWxL) (INCHES)	RACK PANEL HEIGHT OPT/STD
NGL30XX-XX(XXX)	300 VA / 240 W	6	3.25 x 5 x 13.75	2U OPT
NGL1KXX-XX(XXX)	1000 VA / 800 W	6	3.25 x 5 x 13.75	2U OPT
NGL1.5KXX-XX(XXX)	1500 VA / 1200 W	6	3.25 x 5 x 13.75	2U OPT

## MODEL NUMBER SELECTION CHART

Replace the "XX" in the models above with frequency and voltage from chart below.

NGL1K XX-XX(XXX)

OUTPUT FREQUENCY		INPUT VOLTAGE SELECTION		OUTPUT VOLTAGE SELECTION	
CODE	FREQUENCY	CODE	VOLTAGE	CODE	VOLTAGE
50	50 Hz Output	12	10-16 VDC	BLANK	120 VAC 1 Phase
60	60 Hz Output	24	22-32 VDC	220	220 VAC 1 Phase
400	400 Hz Output	36	32-44 VDC	230	230 VAC 1 Phase
		48	42-56 VDC	240	240 VAC 1 Phase
		72	64-88 VDC		
		120	105-150 VDC		
		155	120-205 VDC		

Not all combinations of voltage, frequency and phase (single / 3 phase) are available.

