NGL MODELS LIGHTWEIGHT INVERTERS GALAXY SERIES FOR SEVERE ENVIRONMENT APPLICATIONS WORLDWIDE

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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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
- 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 $+60^{\circ}$ 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:

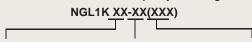
Automatic overload & short circuit protection Transient Response: Approx. 3 cycle recovery to 95%

of nominal

MODELS	CONTINUOUS OUTPUT	APPROX. WEIGHT	SIZE (HxWxL)	RACK PANEL HEIGHT
	POWER	(LB)	(INCHES)	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

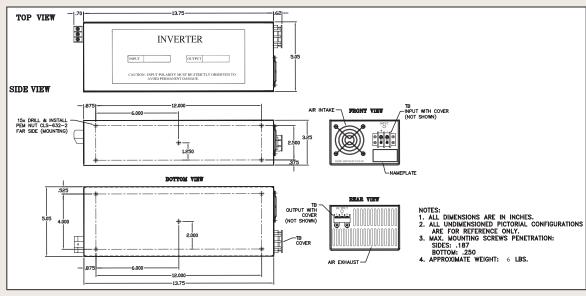
MODEL NUMBER SELECTION CHART

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



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.



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