

Nova Lightweight Compact Sine Wave DC-AC Inverters

120 VA – 60 kVA
1Ø & 3Ø Designs
50, 60, & 400 Hz

Lightweight, High-Reliability Inverters for demanding shock, vibration, humidity and EMI environments. Units utilize advanced high-frequency PWM topology for significant size and weight savings. -Military applications include HMMWV, UAV, Shipboard, Submarine, and Mobile Power Units-

INPUT

Nominal Input Voltage*: 24, 36, or 48 VDC std.
120 and 155 VDC opt.
*Other ranges (including 12 VDC) available on some models. Please consult the factory for details.

OUTPUT

Power Ratings: 120 VA – 60 kVA
Voltage (specify): Any standard voltage available
Voltage Regulation: ±1.5% No Load to Full Load
Frequency: 50 Hz, 60 Hz, and 400 Hz
Frequency Regulation: ±0.5% No load to Full Load
Dynamic Voltage Regulation: ±10%
Total Harmonic Distortion: 5% THD
Overload: 125% for 10 Minutes
Efficiency: 80-85%, AC-AC Typical
Power Factor: 0.7 lead to 0.7 lag
Connections: Input via studs, Output via Terminal Block or Outlets
Sync. & Phase Lock Range: ±3% Typical

ENVIRONMENTAL SPECIFICATIONS

Operating Temp. Range: -20°C to +50°C
Humidity: 95% non-condensing
Elevation: 15,000 ft. (4,572m) operating
40,000 ft. (12,192m) non-operating
Audible Noise: less than 55 dBA at 5ft typical
MTBF: In excess of 50,000 hours
Typical Service Life: 25 Years

NOTE: The specifications above are generalized for all of the Inverters shown. Consult individual data sheets for exact specs.

APPLICATIONS

- Military Vehicles and Shelters
- Electric Utilities and Substations
- Communications Systems
- OEM Applications
- Process Control
- Security Systems
- Cellular Sites
- Rapid and Mass Transit
- Aircraft Power
- AC Power from Station Battery
- Automotive Testing
- TV and Radio Vans

PARTIAL LISTING OF AVAILABLE OPTIONS*

- 19", 23", or 24" Panel Mount
- Ruggedization against shock and vibration to MIL-STD-810
- Static Transfer Switch
- Electromechanical Transfer Switch
- MS Connectors or Outlets
- Switchable 50/60 Hz Output
- Provision for 3Ø Connection with 2 more identical units
- Input and Output Circuit Breakers
- Input/Output Voltmeter and Ammeter
- Output Frequency Meter
- Input Transient Filter or Hash Filter
- Input Overvoltage & Undervoltage Shut Off Circuit
- High Inrush for Motor Start
- Wall-Mounting Plate
- Wide Temperature Range -40°C to +71°C
- Custom Painting and Marking

*Please note that the options listed above may not fit or may already be standard equipment on some Nova Inverters. Please consult the factory for details.

CUSTOM DESIGNS AVAILABLE



Custom Compact Designs Available

Contact Factory for Details

ADVANCED MODULAR GL-SERIES



1 kVA Model GL1K60-XX shown with optional 19" rack-mounting panel

Inverter Dimensions: 5.25"H x 19"W x 8"D / 17 lbs.

LIGHTWEIGHT GALAXY-SERIES 1Ø & 3Ø



Available in 1-10 kVA

-PARTIAL SELECTION OF SINGLE-PHASE & THREE-PHASE LIGHTWEIGHT HIGH-FREQUENCY TRANSFORMER DC-AC INVERTERS¹⁻

1Ø MODELS	KVA	OUTPUT VAC	Dimensions H"xW"xD"	LBS	Rack-Panel Height OPT / STD	3Ø MODELS SEE NOTES 3 & 4	KVA	OUTPUT VAC	Dimensions H"xW"xD"	LBS
GL5060-XX	0.5	Any standard	5x8x12.5	15	5.25" OPT	GL1.5K3/6-XX(120/208)	1.5	120/208	8.75x19x24	50
GL1K60-XX	1	output voltage available for	5x8x12.5	15	5.25" OPT	GL1.5K3/5-XX(220/380)	1.5	220/380	8.75x19x24	50
GL1.5K60-XX	1.5		5.25x10x16.5	23	5.25" OPT	GL1.5K3/4-XX(115/200)	1.5	115/200	8.75x19x24	50
GL2K60-XX	2	all 1Ø Phase models shown.	5.25x10x16.5	28	7.00" OPT	GL3K3/6-XX(120/208)	3	120/208	8.75x19x24	50
GL2.5K60-XX	2.5		5.25x12.5x18.5	32	7.00" OPT	GL3K3/5-XX(220/380)	3	220/380	8.75x19x24	50
GL3K60-XX	3	all 1Ø Phase models shown.	5.25x12.5x18.5	36	7.00" OPT	GL3K3/4-XX(115/200)	3	115/200	8.75x19x24	50
GL5K60-XX	5		5.25x19x21	60	5.25" STD	GL4.5K3/6-XX(120/208)	4.5	120/208	Consult Factory	80
GL6K60-XX	6	all 1Ø Phase models shown.	5.25x19x21	65	5.25" STD	GL4.5K3/5-XX(220/380)	4.5	220/380	Consult Factory	80
GL10K60-XX	10		C/F	C/F	C/F	GL4.5K3/4-XX(115/200)	4.5	115/200	Consult Factory	80
						GL6K3/6-XX(120/208)	6	120/208	Consult Factory	80
						GL6K3/5-XX(220/380)	6	220/380	Consult Factory	80
						GL6K3/4-XX(115/200)	6	115/200	Consult Factory	80
						GL9K3/6-XX(120/208)	9	120/208	Consult Factory	80
						GL9K3/5-XX(220/380)	9	220/380	Consult Factory	C/F
						GL9K3/4-XX(115/200)	9	115/200	Consult Factory	C/F

Notes:
 1) REPLACE "XX" IN MODELS DEPICTED ABOVE WITH NOMINAL INPUT VOLTAGE REQUIRED.
 2) Charts above depict partial model selection. Additional models available. Consult the factory for details.
 3) Many types of enclosures are available. Please consult the factory for details.
 4) All weights shown above are approximate. Please consult the factory for details.
 5) When ordering, choose model series, output power rating, output frequency, and input voltage (in order) to form Nova Inverter model number. Example: Model GL1K60-24 is an GL-Series Inverter with a nominal input of 24 VDC, and an output of 120 VAC, 60 Hz, 1 kVA.
 6) Specifications are subject to change without notice. Please consult the factory for details.

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SINE WAVE COMPACT LIGHTWEIGHT DC-AC INVERTERS



GLOBAL VISION
 IN POWER
 DEFINITION