

CGL3K SERIES PURE SINEWAVE INVERTER 3000 WATTS

12, 24, or 48VDC

120V 50/60 HZ or 220V 50/60HZ Output



APPLICATIONS

Nova Electric's CGL-Series inverters are intended for commercial and industrial applications wherever pure sine wave power is needed at 50 or 60 Hz.

These inverters are ideal for running electronic loads such as computers, monitors, printers, telecom systems, radios, fluorescent lamps from batteries, field generators, and solar electro-voltaic panels. They can also drive hand drills, motors and small compressors – please consult the factory for proper sizing.

These CGL models can also be optionally ruggedized against shock, vibration, and humidity for military applications including vehicle mounted, shipboard, submarine, aircraft, and ground fixed shelters.

- Computers
- Monitors
- Printers
- Electric Tools
- RVs
- Sail Boats
- Photo Voltaic
- Instruments
- Appliances
- Military



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AS 9100

BUREAU VERITAS
Certification
Certificate No. 15008203-1



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

CGL-SERIES PURE SINEWAVE DC-AC INVERTER

SPECIFICATIONS

FEATURES

- True sinewave output
- THD < 3%
- Input and output fully isolated
- Load controlled cooling fan
- Advanced microprocessor control
- Output frequency 50/60 Hz switch selectable
- Low power saving mode to conserve energy
- CE approved

PROTECTIVE FEATURES

- Input reverse polarity
- Undervoltage
- Overvoltage
- Output short circuit
- Overload
- Overtemperature

ELECTRICAL

Input Voltage: 12, 24 or 48VDC
 Output Voltage 110V models: 100/110/120 VAC
 Output Voltage 230V models: 220/230/240 VAC
 Rated Power: 3000W
 Surge Power: 6000W
 Frequency: 50 or 60 HZ switch selectable
 AC Regulation: +/- 3%
 Std. Receptacles 110V models: NEMA5-20r
 Std. Receptacles 220V models: Schuko
 Led Indicators: Input voltage level, output load level and fault status
 No load Current: <1.0W Sleep Mode
 Output Waveform Sinewave: <3% THD
 Output Regulation: -10% / +4% All models

ENVIRONMENTAL

Operating Temp: -20° to +50°C
 Storage Temp Range: -40° to +71°C
 Humidity: to 95% non condensing

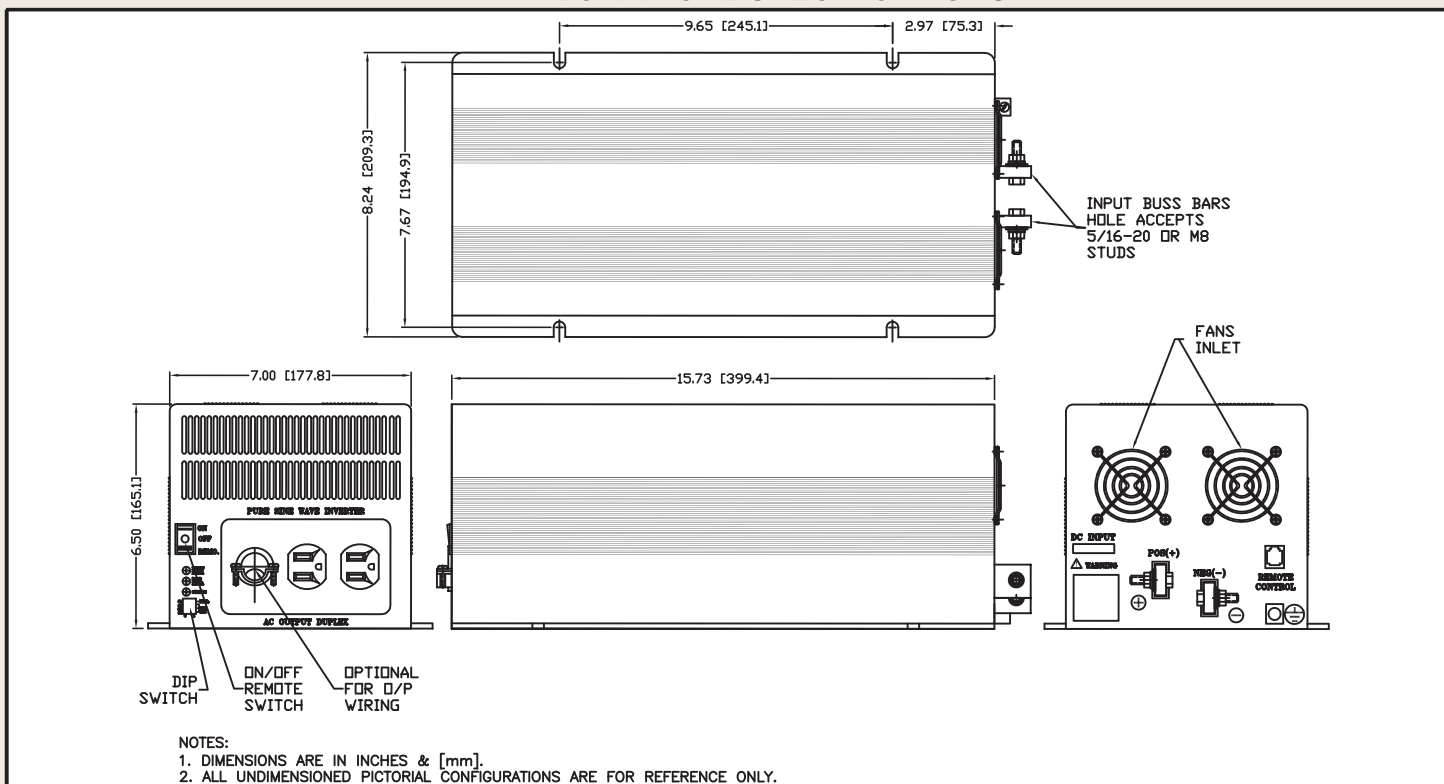
SAFETY & EMC

Safety Standards: Meets UL458
 Isolation Resistance: I/P - O/P: 100M Ohms / 500VDC
FOR 110V Models
 EMI Conduction and Radiation: Compliance to FCC class A
FOR 230V Models
 EMI Conduction and Radiation: Compliance to EN55022 class A
 EMS Immunity: Compliance to EN61000-3-2,3
 LVD: Compliance to EN60950-1
 e-MARK: Compliance to e-13 * 72/245/EEC, 95/54/EC

MODEL SELECTION

| | CGL3K-12-120 | CGL3K-24-120 | CGL3K-48-120 | CGL3K-12-220 | CGL3K-24-220 | CGL3K-48-220 |
|-----------------------|----------------------|--------------|--------------|--------------|--------------|--------------|
| DC Voltage | 12VDC | 24VDC | 48VDC | 12VDC | 24VDC | 48VDC |
| Voltage Range | 10.5~15.0VDC | 21.0~30.0VDC | 42.0~60.0VDC | 10.5~15.0VDC | 21.0~30.0VDC | 42.0~60.0VDC |
| Efficiency (Typ.) | 88.0% | 91.0% | 92.0% | 90.0% | 93.0% | 94.0% |
| Low VDC Alarm | 11VDC | 22VDC | 44VDC | 11VDC | 22VDC | 44VDC |
| Low VDC Shutdown | 10.5VDC | 21.0VDC | 42.0VDC | 10.5VDC | 21.0VDC | 42.0VDC |
| Over Voltage | 15.3VDC | 30.6VDC | 61.2VDC | 15.3VDC | 30.6VDC | 61.2VDC |
| No Load Current draw | 2.00A | 1.60A | 0.80A | 2.80A | 1.50A | 0.70A |
| Stand-by Current draw | 0.55A | 0.35A | 0.19A | 0.50A | 0.35A | 0.19A |
| Weight | 22 pounds / 9.98 Kg. | | | | | |

MECHANICAL SPECIFICATIONS



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