# 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 sinewave 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: US008267-1

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. Rceptacles 110V models: NEMA5-20r
Std. Rceptacles 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

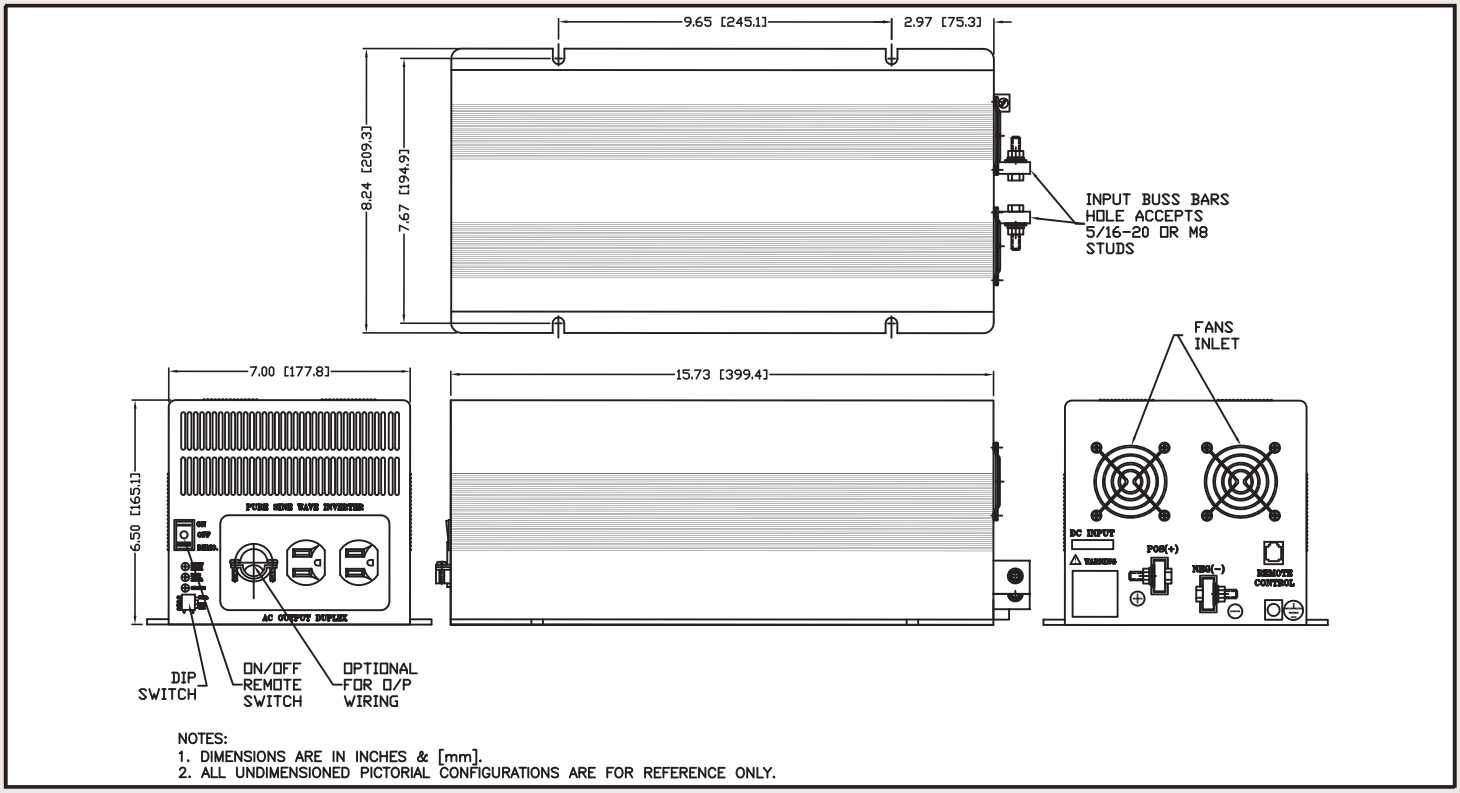
### SAFETY & EMC

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




NOTES:
1. DIMENSIONS ARE IN INCHES & [mm].
2. ALL UNDIMENSIONED PICTORIAL CONFIGURATIONS ARE FOR REFERENCE ONLY.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