

# 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



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

Specifications subject to change without notice.

# 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

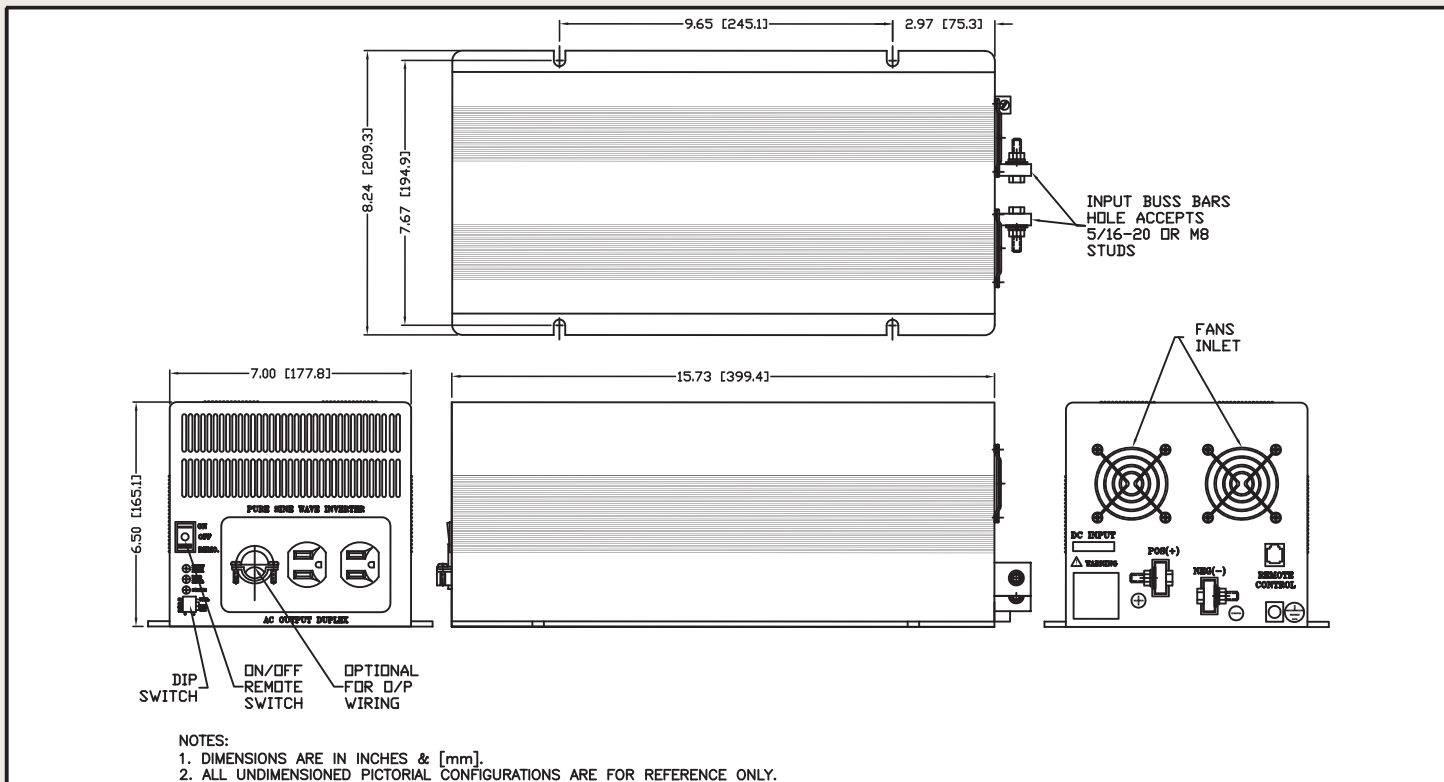
### SAFETY & EMC

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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