

CGL3K SERIES PURE SINEWAVE INVERTER 3000 WATTS

12, 24, or 48VDC

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



CE FC cUL^{us} e13

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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ISO 9001

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
- e-13 / CE / FCC 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

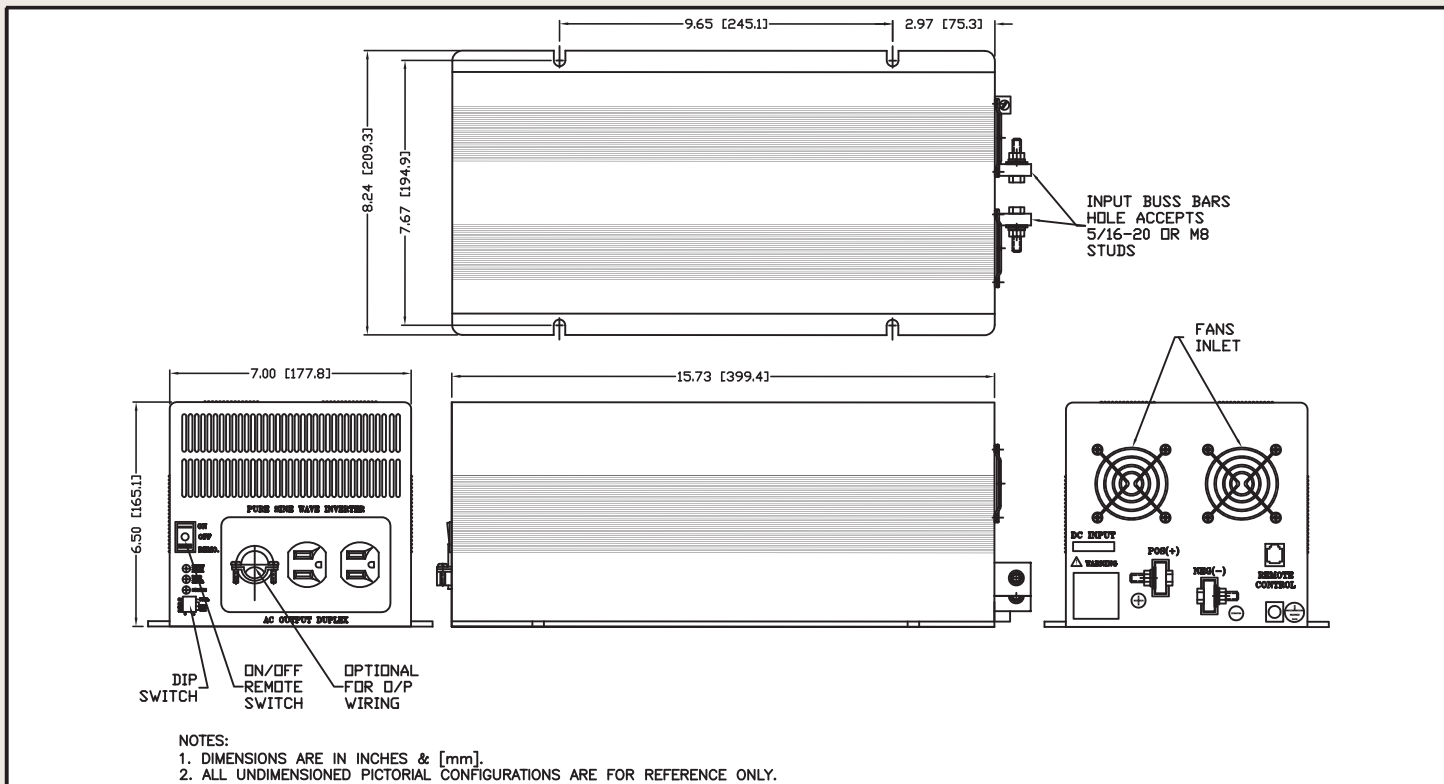
SAFETY & EMC

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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