



CGL2K SERIES

PURE-SINEWAVE DC-AC INVERTERS



2000 WATTS
12 V, 24 V, 48 V INPUT
120 V 50/60 Hz or 220 V 50/60 Hz 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

☐ PRINTERS

☐ MONITORS

☐ MILITARY

☐ SAIL BOATS

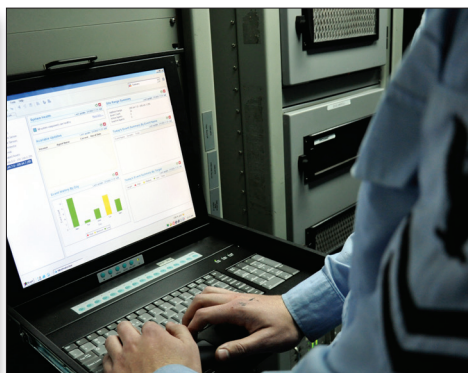
☐ PHOTO VOLTAIC

☐ ELECTRIC TOOLS

☐ APPLIANCES

☐ INSTRUMENTS

☐ RVs



For more information, please visit us at www.novaelectric.com or email us at novasales@theallpower.com

STANDARD FEATURES

- Microprocessor based design with absolutely accurate and stable frequency.
- Panel LED's for battery voltage & load level.
- Compact and light weight, yet rugged and vehicle rated.
- 89-95% efficient.
- Tightly regulated output voltage and frequency
- Switch selectable 50 or 60 Hz output, all models
- Capable of driving highly reactive loads such as electric tools and appliances.
- Capable of driving highly capacitive loads such as switching power supplies.
- Very low harmonic distortion, THD<3%.
- Suitable for vehicle or wall mounting.
- Switch selectable $\pm 10V$ output change.
- Loading Controlled Cooling fan.

SAFETY & EMC

Safety: UL458 EN60950

EMC: FCC Class B , EN50081-1:1992, EN50082-1:1992, EN55022B:1994, EN61000-4-2:1995, EN6100-4-3:1996, EN50204:1995 e-Mark e13-020932

ELECTRICAL

Input Voltage: See below

Output Voltage 110V model: 100/110/120 VAC

Output Voltage 220V model: 220/230/240 VAC

Output Frequency: 50 or 60 HZ User Selectable
 $\pm 0.05\%$ Accuracy

Continuous Power Rating: 2000W

Surge Rating: 4000W

Efficiency 120V model (full load): 89%

Efficiency 220V model (full load): 91%

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

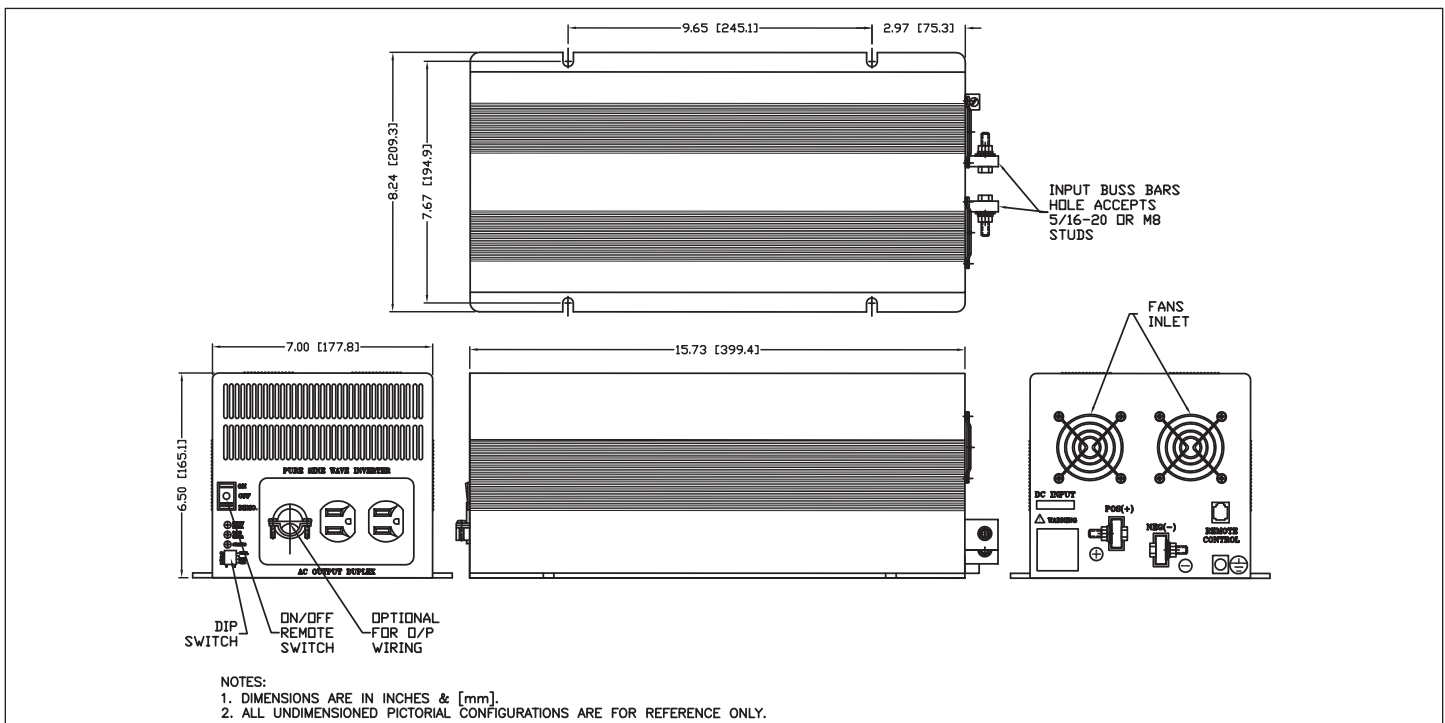
PROTECTIVE FEATURES

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

MODEL SELECTION

	CGL2K-12-120	CGL2K-24-120	CGL2K-48-120	CGL2K-12-220	CGL2K-24-220	CGL2K-48-220
DC Voltage	12 VDC	24 VDC	48 VDC	12 VDC	24 VDC	48 VDC
Voltage Range	10.5~15.0 VDC	21.0~30.0 VDC	42.0~60.0 VDC	10.5~15.0 VDC	21.0~30.0 VDC	42.0~60.0 VDC
Efficiency (Typ.)	89.0%	92.0%	93.0%	91.0%	94.0%	95.0%
Low VDC Alarm	11 VDC	22 VDC	44 VDC	11 VDC	22 VDC	44 VDC
Low VDC Shutdown	10.5 VDC	21.0 VDC	42.0 VDC	10.5 VDC	21.0 VDC	42.0 VDC
Over Voltage	15.3 VDC	30.6 VDC	61.2 VDC	15.3 VDC	30.6 VDC	61.2 VDC
No Load Current Draw	2.80 A	1.50 A	0.70 A	2.64 A	1.32 A	0.65 A
Stand-By Current Draw	0.50 A	0.30 A	0.15 A	0.60 A	0.25 A	0.15 A
Weight	20 Lbs. / 9.0 Kg.					

MECHANICAL SPECIFICATIONS



NOVA ELECTRIC Leader in power conversion technology since 1966

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BUREAU VERITAS
Certification
Certificate No. US008262-1



Specifications subject to change without notice.