



CGL600W SERIES

PURE-SINEWAVE DC-AC INVERTERS



600W / 700VA
12 V, 24 V, 48 V INPUT
SIX MODELS FOR
110V 50/60 Hz & 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

☐ SAIL BOATS

☐ APPLIANCES

☐ PRINTERS

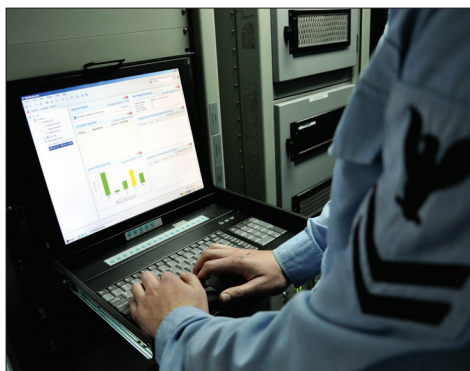
☐ PHOTO VOLTAIC

☐ INSTRUMENTS

☐ MONITORS

☐ ELECTRIC TOOLS

☐ 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.
- Compact and light weight, yet rugged and vehicle rated.
- 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.
- Standard outputs 110V/60Hz, 230V/50Hz.
- Switch selectable $\pm 10V$ output change.
- UL / e-13 / CE / FCC Approved

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: 600W/700VA

Surge Rating: 800W/1000VA

Peak Output Current: 10 Amps 110V model
5 Amps 230V model

Efficiency 110V model (full load): 83%

Efficiency 220V model (full load): 90%

No load Current: 0.7A for 110V Models
0.35A for 230V Models

Output Waveform Sinewave: <4% THD

Output Regulation: -10% / +4% All models

Protection: Overload, Short Circuit, Reverse Polarity
(Fuse), O.T, Over/Under Input Voltage, Fan Failure

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,
ENV50204:1995 e-Mark e13-020866

ENVIRONMENTAL

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

INDICATORS

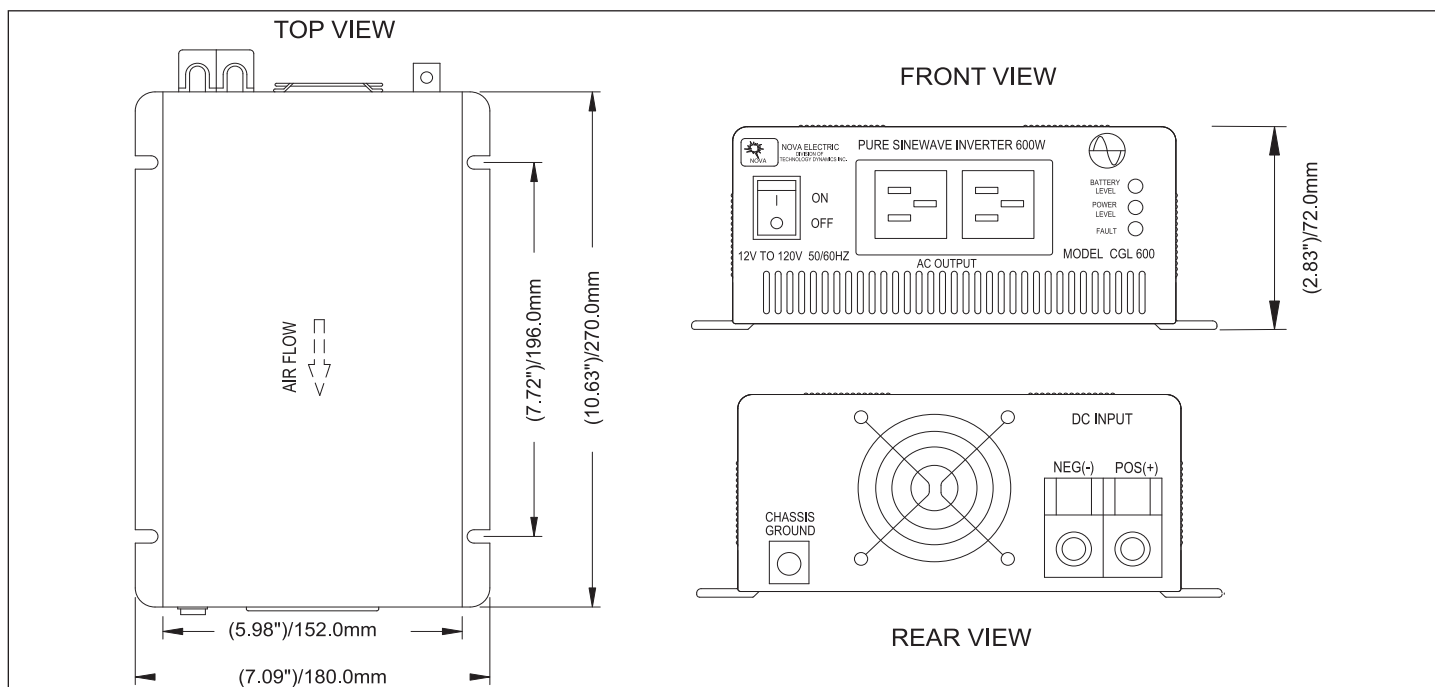
- Input level
- Output level
- Failure

MODEL SELECTION

INPUT VDC	120 V MODELS 50 Hz or 60 Hz	220 V MODELS 50 Hz or 60 Hz	DIMENSIONS (L" x W" x H")	WEIGHT (Lbs.)
10.5 - 15 V	CGL600W-12-120	CGL600W-12-220	10.60 x 7.10 x 2.80	6.6
21 - 30 V	CGL600W-24-120	CGL600W-24-220	10.60 x 7.10 x 2.80	6.6
42-60V	CGL600W-48-120	CGL600W-24-220	10.60 x 7.10 x 2.80	6.6

SPECIFICATION	110 V MODELS	230 V MODELS
EMI CONDUCTION AND RADIATION	Compliance to FCC class A	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,95,94/EC

MECHANICAL SPECIFICATIONS



NOVA ELECTRIC Leader in power conversion technology since 1966

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AS 9100

BUREAU VERITAS
Certification
Certificate No. US008262-1



Specifications subject to change without notice.