

# CGL600W SERIES PURE SINEWAVE INVERTER 600W / 700VA

Input: 12V, 24V, 48V  
Six models for 110V 50/60 HZ  
& 220V 50/60HZ Output



CE FC cULus 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



**NOVA ELECTRIC**  
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ISO 9001

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

# PURE SINEWAVE DC-AC INVERTER

## SPECIFICATIONS

### FEATURES

- Microprocessor based design with absolutely accurate and stable frequency
- Compact and lightweight, yet rugged and vehicle rated
- Tightly regulated output voltage and frequency
- Switch selectable 50 or 60 Hz output
- 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 < 4%
- Suitable for vehicle or wall mounting
- Switch selectable +/-10V output change
- Sinewave performance at modified sinewave prices
- UL / e-13 / CE / FCC Approved

### ELECTRICAL

Input: 12VDC; 24VDC; 48VDC Nominal  
 Output for 110V Models: 100/110/120VAC  
 Output for 220V Models: 220/230/240VAC  
 Frequency: 50 or 60Hz user selectable  
 Accuracy: +/- 0.05%  
 Power Rating Continuous: 600W/700VA  
 Surge Rating: 800W/1000VA  
 Peak Output Current 110V Models: 10A  
 Peak Output Current 230V Models: 5A  
 Efficiency (full load): 110V model 83%  
 Efficiency (full load): 220V model 90%  
 No Load Current: 0.7A (110 V Models)  
 0.35A (230 V Models)  
 Output Waveform: Sinewave <5% THD  
 Output Regulation: -10% / +4% all models

### PROTECTIVE FEATURES

Overload  
 Shortcircuit  
 Reverse polarity (fuse)  
 Overtemperature  
 Over/under input voltage  
 Fan failure

### 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

### SAFETY

UL458 EN60950

## MODEL SELECTION

INPUT (VDC)	120V MODELS 50 or 60 Hz	220V MODELS 50 or 60 Hz	DIMENSIONS L x W x H (Inches)	WEIGHT
10.5 - 15V	CGL600W-12-120	CGL600W-12-220	10.6 x 7.10 x 2.8	6.6 LB
21 - 30V	CGL600W-24-120	CGL600W-24-220	10.6 x 7.10 x 2.8	6.6 LB
42 - 60V	CGL600W-48-120	CGL600W-48-220	10.6 x 7.10 x 2.8	6.6 LB

SPECIFICATION	110V MODELS	220V 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, 95/54/EC

## MECHANICAL SPECIFICATIONS

