

# CGL300W SERIES PURE SINEWAVE INVERTER 300W / 350VA

12, or 24VDC

120V 50/60 HZ or 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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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
- 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
- Sinewave performance at modified sinewave prices
- UL / e-13 / CE / FCC Approved

### ELECTRICAL

Input: 10.7 - 56VDC  
 Output for 110V Models: 110/120VAC  
 Output for 230V Models: 230/240VAC  
 Frequency: 50 or 60Hz factory selectable  
 Accuracy: +/- 0.05%  
 Power Rating Continuous: 300W/350VA  
 Surge Rating: 400W/480VA  
 Peak Output Current 120V Models: 3.3A  
 Peak Output Current 240V Models: 1.66A  
 Efficiency (full load): 110V model 83%  
 Efficiency (full load): 220V model 90%  
 No Load Current: 0.25 MAX  
 Output Waveform: Sinewave <5% THD  
 Output Regulation: +/- 5% 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

## MODEL SELECTION

INPUT	110V MODELS 50 or 60 Hz	230V MODELS 50 or 60 Hz	DIMENSIONS L x W x H (Inches)	WEIGHT
12V	CGL300W-12-110	CGL300W-12-230	9.33 x 6.10 x 2.83	7.7 LB
24V	CGL300W-24-110	CGL300W-24-230	9.33 x 6.10 x 2.83	7.7 LB

SPECIFICATION	110 MODELS	230 MODELS
EMI CONDUCTION AND RADIATION	Compliance to FFC class B	Compliance to En55022 class B
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

