# CGL300W SERIES PURE SINEWAVE INVERTER 300W / 350VA

12, or 24VDC 120V 50/60 HZ or 220V 50/60HZ 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
- Monitors
- Photo Voltaic
- Printers
- Instruments
- Electric Tools
- Appliances
- □ RVs



NOVA ELECTRIC

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## 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
- CE Approved

### **ELECTRICAL**

Input: 12VDC; 24VDC Nominal Output for 110V Models: 110/120VAC Output for 230V Models: 230/240VAC Frequency: 50 or 60Hz factory selectable

Accury: +/- 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 Isolation: 100m ohms / 500 VDC

### PROTECTIVE FEATURES

Overload Shortcircuit

Reverse polarity (fuse) Overtemperature

Over/under input voltage

Fan failure

### **ENVIRONMENTAL**

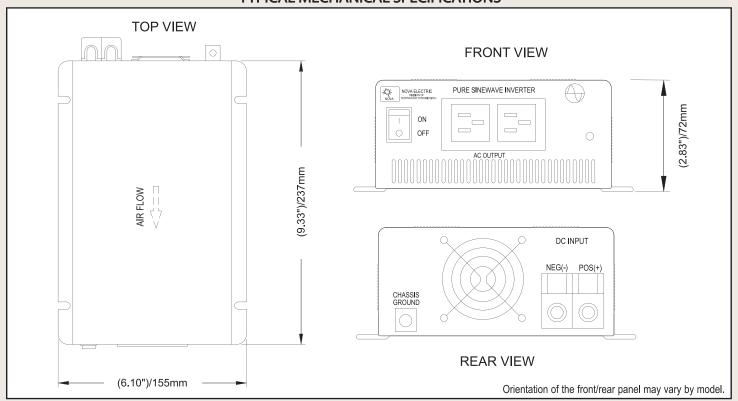
Operating Temp.: -20° to +50°C Storage Temp. Range: -40° to +71°C Humidity: To 95% non-condensing

### MODEL SELECTION

INPUT (VDC)	110V MODELS 50 or 60 Hz	230V MODELS 50 or 60 Hz	DIMENSIONS L x W x H (Inches)	WEIGHT
10.5 - 15V	CGL300W-12-110	CGL300W-12-230	9.33 x 6.10 x 2.83	7.7 LB
21-30V	CGL300W-24-110	CGL300W-24-230	9.33 x 6.10 x 2.83	7.7 LB

SPECIFICATION	110V MODELS	230V MODELS	
EMI CONDUCTION AND RADIATION	Compliance to FCC 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	

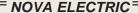
# TYPICAL MECHANICAL SPECIFICATIONS



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