

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
- 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

Specifications subject to change without notice.

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
 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
 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

