



CGL3K SERIES

PURE-SINEWAVE DC-AC INVERTERS



3000 WATTS
12 V, 24 V, 48 V INPUT
120 V 50/60 Hz or 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.

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|------------------------------------|-----------------------------------------|--------------------------------------|
| <input type="checkbox"/> COMPUTERS | <input type="checkbox"/> SAIL BOATS | <input type="checkbox"/> APPLIANCES |
| <input type="checkbox"/> PRINTERS | <input type="checkbox"/> PHOTO VOLTAIC | <input type="checkbox"/> INSTRUMENTS |
| <input type="checkbox"/> MONITORS | <input type="checkbox"/> ELECTRIC TOOLS | <input type="checkbox"/> RVs |
| <input type="checkbox"/> MILITARY | | |



For more information, please visit us at www.novaelectric.com or email us at novasales@theallpower.com

FEATURES

- True sinewave output
- THD < 3%
- Input and output fully isolated
- Load controlled cooling fan
- Advanced microprocessor control
- Output frequency 50/60 Hz switch selectable
- Low power saving mode to conserve energy
- e-13 / CE / FCC approved

PROTECTIVE FEATURES

- Input reverse polarity
- Undervoltage
- Overvoltage
- Output short circuit
- Overload
- Overtemperature

ELECTRICAL

Input Voltage: 12, 24 or 48VDC
 Output Voltage 110V models: 100/110/120 VAC
 Output Voltage 230V models: 220/230/240 VAC
 Rated Power: 2000W
 Surge Power: 4000W
 Frequency: 50 or 60 HZ switch selectable
 AC Regulation: +/- 3%
 Std. Rceptacles 110V models: NEMA5-20r
 Std. Rceptacles 220V models: Schuko
 Led Indicators: Input voltage level, output load level and fault status

ENVIRONMENTAL

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

SAFETY & EMC

Safety Standards: UL458
 (with optional GFCI outlet only)
 Isolation Resistance: I/P - O/P: 100M Ohms / 500VDC
 FOR 110V Models
 EMI Conduction and Radiation:
 Compliance to FCC class A
 FOR 230V Models
 EMI Conduction and Radiation:
 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

MODEL SELECTION

	CGL3K-12-120	CGL3K-24-120	CGL3K-48-120	CGL3K-12-220	CGL3K-24-220	CGL3K-48-220
DC Voltage	12 VDC	24 VDC	48 VDC	12 VDC	24 VDC	48 VDC
Voltage Range	10.5~15.0 VDC	21.0~30.0 VDC	42.0~60.0 VDC	10.5~15.0 VDC	21.0~30.0 VDC	42.0~60.0 VDC
Efficiency (Typ.)	88.0%	91.0%	92.0%	90.0%	93.0%	94.0%
Low VDC Alarm	11 VDC	22 VDC	44 VDC	11 VDC	22 VDC	44 VDC
Low VDC Shutdown	10.5 VDC	21.0 VDC	42.0 VDC	10.5 VDC	21.0 VDC	42.0 VDC
Over Voltage	15.3 VDC	30.6 VDC	61.2 VDC	15.3 VDC	30.6 VDC	61.2 VDC
No Load Current Draw	2.00 A	1.60 A	0.80 A	2.80 A	1.50 A	0.70 A
Stand-By Current Draw	0.55 A	0.35 A	0.19 A	0.50 A	0.35 A	0.19 A
Weight	20 Lbs. / 9.0 Kg.					

MECHANICAL SPECIFICATIONS

