

CGD1.5K SERIES PURE-SINEWAVE DG-AC INVERTERS

» INCLUDES BUILT-IN AUTOMATIC TRANSFER SWITCH (ATS) WITH AC INPUT CIRCUIT BREAKER

» PARALLELABLE FOR INCREASED POWER

» 3 PHASE WYE CONFIGURABLE

» 120/240 CT SPLIT PHASE CONFIGURABLE

> 1500W / 1500VA 12 V, 24 V, 48 V INPUT SIX MODELS FOR 110V 50/60 Hz & 220V 50/60 Hz OUTPUT

APPLICATIONS

Nova Electric's CGD-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 CGD 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**
- **PRINTERS**
- MONITORS

- SAIL BOATS
- Dependence Photo Voltaic
- **ELECTRIC TOOLS**

- APPLIANCES
- INSTRUMENTS
- RVs



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

STANDARD FEATURES

- Microprocessor based design with absolutely accurate and stable frequency.
- Compact and light weight, yet rugged and vehicle rated.
- Tightly regulated output voltage and frequency
- Switch selectable 50 or 60 Hz output, all models
- 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
- Suitable for vehicle or wall mounting
- Standard outputs 110V/60Hz, 230V/50Hz
- Switch selectable ±10V output change
- RS-232 communication (RJ11 Connector)
- Built in mechanical transfer switch (ATS)

ELECTRICAL

Input Voltage: See Table Output Voltage 110V model: 100/110/120 VAC

Output Voltage 220V model: 220/230/240 VAC Output Frequency: 50 or 60 HZ ±0.1% Accuracy Continuous Power Rating: 1500W/1500VA

Peak Power (3 seconds): 1800W
Surge Rating: 2400W

Efficiency: 88% (12V), 89% (24V), 90% (48V) *Output Waveform Sinewave:* <3% THD*

Output Voltage Regulation: ±3%

Protection: Overload, Short Circuit, Reverse Polarity (Fuse), O.T, Over/Under Input Voltage, Fan Failure

Output Frequency Regulation: ±0.1%

Synchronous Frequency: 47-57 / 53 - 63 Hz

ATS: Inverter to utility AC: < 5 ms.

Utility AC to inverter: < 10 ms.

SAFETY & EMC

120V: FCC Class B **220V:** EN55014-1**, EN55014-2**; EN61000-3-2, -3-3; EN61204-3;

ENVIRONMENTAL

- Operating Temp.: -20° to +40°; + 60°C @ 40% Pwr Load
- Storage Temp. Range: -40° to +71°C
- Humidity: To 90% non-condensing

INDICATORS, CONTROL & COMMUNICATIONS

- Input level, Fault Status
- Optional Remote Control
- Optional Ethernet Communications

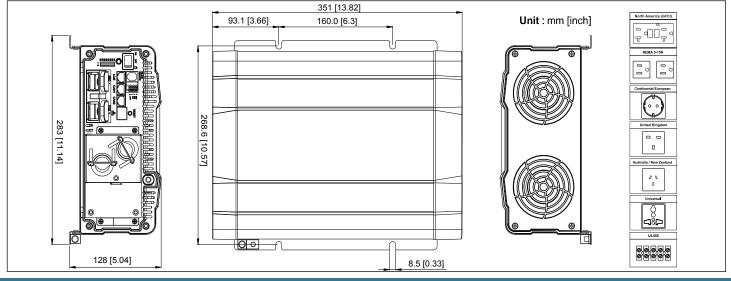
* Under condition: > 1.15 x rated VDC, 110V or 230V / linear load ** EN55014-1, EN55014-2 Class B: output cable less than 6.5 ft (2 meters)

	12V - 120V	24V - 120V	48V - 120V	12V - 220V	24V - 220V	48V - 220V	
No Load Power Consumption	@12VDC	@24VDC	@48VDC	@12VDC	@24VDC	@48VDC	
On Mode @ Save Mode On Mode @ No Load Mode	0.9A <2.4A	0.35A <1.2A	0.3A <0.6A	1.1A <3.3A	0.7A <1.6A	0.4A <0.8A	
Fuse	40A x 6	20A x 6	15A x 4	40A x 6	20A x 6	15A x 4	
BAT. Low Alarm ±3%	10.5 VDC	21.0 VDC	42.0 VDC	10.5 VDC	21.0 VDC	42.0 VDC	
BAT. Low Shut-down ±3%	10.0 VDC	20.0 VDC	40.0 VDC	10.0 VDC	20.0 VDC	40.0 VDC	
BAT. Low Restart ±3%	12.5 VDC	25.0 VDC	50.0 VDC	12.5 VDC	25.0 VDC	50.0 VDC	
BAT. High Alarm ±3%	15.5 VDC	31.0 VDC	62.0 VDC	15.5 VDC	31.0 VDC	62.0 VDC	
BAT. High Shut-down ±3%	16.0 VDC	32.0 VDC	64.0 VDC	16.0 VDC	32.0 VDC	64.0 VDC	
BAT. High Restart ±3%	15.0 VDC	30.0 VDC	60.0 VDC	15.0 VDC	30.0 VDC	60.0 VDC	

MODEL SELECTION

INPUT VDC	120 V MODELS 50 Hz or 60 Hz	220 V MODELS 50 Hz or 60 Hz	DIMENSIONS (L" x W" x H") [mm]	WEIGHT
10 - 16 V	CGD1.5K-12-120	CGD1.5K-12-220	13.82 x 11.14 x 5.04 [351 x 283 x 128]	12.13 lbs [5.5 kg]
20 - 32 V	CGD1.5K-24-120	CGD1.5K-24-220	13.82 x 11.14 x 5.04 [351 x 283 x 128]	12.13 lbs [5.5 kg]
40 - 60 V	CGD1.5K-48-120	CGD1.5K-24-220	13.82 x 11.14 x 5.04 [351 x 283 x 128]	12.13 lbs [5.5 kg]

MECHANICAL SPECIFICATIONS



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