# RUGGED RCGL SERIES PURE-SINEWAVE DC-AC INVERTERS

Input: 12, 24, or 48VDC Output: 120V or 220V 1Ø

50 or 60Hz

Power: 2KW



# **APPLICATIONS**

Utilizing field proven technology, this family of rugged pure sinewave DC-AC Inverters is suitable for harsh environments and can be customized for unique applications including:

- Military Shelters
- Utility Applications
- □ Tactical Systems
- Mobile Systems
- □ Ground support
- Communications
- □ MIL-STD-810
- □ MIL-STD-461



# NOVA ELECTRIC

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A Leader in DC-AC Inverter Technology since 1966 - 500VA to 500+KVA

# PURE SINEWAVE DC-AC INVERTER

### **SPECIFICATIONS**

### **FEATURES**

- Microprocessor based design with absolutely stable frequency.
- Panel LEDs for battery voltage & load level.
- Compact and light weight, yet rugged and vehicle rated.
- 93-95% efficient.
- Tightly regulated output voltage and frequency
- Switch selectable 50 or 60 Hz output.
- 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<3%.
- Suitable for vehicle mounting.
- Switch selectable ±10V output change.
- Load Controlled Cooling fan.

# ELECTRICAL

Input Voltage: 12, 24 or 48 V

Output Voltage 110V model: 100/110/120 VAC Output Voltage 220V model: 220/230/240 VAC

Output Frequency: 50 or 60 HZ (User Selectable + 0.05% Accuracy)

Continuous Power Rating: 2000W

Surge Rating: 4000W

Efficiency (full load): 120V model 93% Efficiency (full load): 220V model 95% No load Current: <1.0W Sleep Mode Output Waveform Sinewave: <3% THD

Output Regulation: +/-3%

MTBF: over 100,000 hours per field data

MTTR: 30 minutes

### PROTECTIVE FEATURES

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

## **ENVIRONMENTAL**

Operating Temperature:  $-20^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  Storage Temperature:  $-40^{\circ}\text{C}$  to  $+71^{\circ}\text{C}$  Shock: 20g / 11mS per MIL-STD-810

Vibration: per MIL-STD-810

Humidity: per MIL-STD-810 to 95% non

condensing

EMI: per MIL-STD-461 CE102, CS101, CS114, CS115, CS116, RE102, and RS103

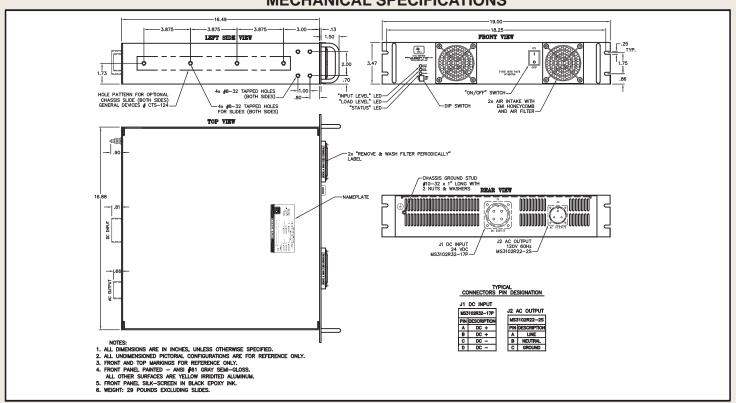
### POPULAR OPTIONS

- MS Connector Mates
- Chassis Slides
- Additional Ruggedization against Shock / Vibration / Humidity to MIL-STD-810
- Weatherproofing Package (Sealed Breakers / Switches, additional dust filtration, and louvered air intake / exhaust for protection from splashing water
- Internal Electromechanical Transfer Switch

## MODEL SELECTION

MODEL	INPUT RANGE VDC		OUTPUT FREQ. (HZ)	CONTINUOUS OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE (HxWxL) (INCHES)
RCGL2K-12-120	10.5-15	120	50 OR 60	2KW	29 LB	3.5 x 19 x 16.5
RCGL2K-12-220	10.5-15	220	50 OR 60	2KW	29 LB	3.5 x 19 x 16.5
RCGL2K-24-120	21-30	120	50 OR 60	2KW	29 LB	3.5 x 19 x 16.5
RCGL2K-24-220	21-30	220	50 OR 60	2KW	29 LB	3.5 x 19 x 16.5
RCGL2K-48-120	42-60	120	50 OR 60	2KW	29 LB	3.5 x 19 x 16.5
RCGL2K-48-120	42-60	220	50 OR 60	2KW	29 LB	3.5 x 19 x 16.5

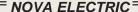
# **MECHANICAL SPECIFICATIONS**



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