

# RUGGED PORTABLE OUTDOOR OCGL - SERIES DC-AC INVERTERS

Input: 12, 24, or 48VDC  
Output: 120V or 220V 1Ø  
50 or 60Hz  
Power: 2KW / 3KW



## 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
- Tactical Systems
- Ground support
- MIL-STD-810
- Utility Applications
- Mobile Systems
- Communications
- MIL-STD-461



**NOVA ELECTRIC**  
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AS 9100  
BUREAU VERITAS  
Certification  
Certificate No. US006267-1



A Leader in INVERTER Technology since 1966 - 500VA to 500+KVA

MADE IN USA

# PURE SINEWAVE DC-AC INVERTER

## SPECIFICATIONS

### FEATURES

- Microprocessor based design with absolutely accurate and stable frequency.
- Compact and light weight, yet rugged and vehicle rated.
- 89-95% 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 or wall mounting.
- IP Rating: 54 (higher ratings optional)

### 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  
 ± 0.05% Accuracy  
 2KW Surge Rating: 4000W  
 3KW Surge Rating: 6000W  
 No load Current: <1.0W Sleep Mode  
 Output Waveform Sinewave: <3% THD  
 Output Regulation: -10% / +4% All models  
 MTBF: over 100,000 hours per field data  
 MTTR: 30 minutes

### ENVIRONMENTAL

Operating Temperature: -20°C to +50°C  
 Storage Temperature: -40°C to + 71°C  
 Shock: 20g / 11ms per MIL-STD-810  
 Vibration: per MIL-STD-810 (Munson Road Test)  
 Humidity: per MIL-STD-810 to 95% non condensing  
 EMI: per MIL-STD-461 CE102, CS101, CS114, CS115, CS116, RE102, and RS103

### PROTECTIVE FEATURES

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

## MODEL SELECTION

MODEL	INPUT RANGE VDC	OUTPUT VDC	OUTPUT FREQ. (HZ)	CONTINUOUS OUTPUT POWER	EFFICIENCY (FULL LOAD)	APPROX. WEIGHT (LB)	SIZE (HxWxL) (INCHES)
OCGL2K-12-120	10.5-15	120	50 OR 60	2KW	89%	29 LB	6.8 x 10 x 17.9
OCGL2K-12-220	10.5-15	220	50 OR 60	2KW	91%	29 LB	6.8 x 10 x 17.9
OCGL2K-24-120	21-30	120	50 OR 60	2KW	92%	29 LB	6.8 x 10 x 17.9
OCGL3K-24-120	21-30	120	50 OR 60	3KW	91%	34 LB	9 x 12 x 17.9
OCGL2K-24-220	21-30	220	50 OR 60	2KW	94%	29 LB	6.8 x 10 x 17.9
OCGL3K-24-220	21-30	220	50 OR 60	3KW	93%	34 LB	9 x 12 x 17.9
OCGL2K-48-120	42-60	120	50 OR 60	2KW	93%	29 LB	6.8 x 10 x 17.9
OCGL3K-48-120	42-60	120	50 OR 60	3KW	92%	34 LB	9 x 12 x 17.9
OCGL2K-48-220	42-60	220	50 OR 60	2KW	95%	29 LB	6.8 x 10 x 17.9
OCGL3K-48-220	42-60	220	50 OR 60	3KW	94%	34 LB	9 x 12 x 17.9

## MECHANICAL SPECIFICATIONS

**TYPICAL 2KW OUTLINE**

**TOP VIEW**  
17.88 (width), 10.06 (height), .79 (left offset)

**FRONT VIEW**  
Labels: AIR INTAKE LOUVERS, HANDLE, LED CIRCUIT BREAKER AND BOOT (OPTIONAL), "ON/OFF" SWITCH (OPTIONAL), DUPLEX RECEPTACLE WITH COVER (OPTIONAL)

**LEFT SIDE VIEW**  
1.37 (right offset), .73 (top offset), 16.50 (width)

**REAR VIEW**  
6.81 (height), 10.06 (width), AIR EXHAUST LOUVERS

REVISIONS		BY	APR	DATE
DLR	DESCRIPTION			
A	CHANGED HANDLE AND PAINT SPECS.	RL	BT	3/28/10

  

CONNECTORS PIN DESIGNATION	
J1 AC OUTPUT	J2 DC INPUT
MS3102R20-19S	MS3102R32-17P
PIN DESCRIPTION	PIN DESCRIPTION
A LINE	A DC +
B NEUTRAL	B SPARE
C GND	C DC -
	D GND

  

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TITLE: OUTLINE DRAWING PORTABLE OCGL2K INVERTER	
DATE: 03/18/10	BY: RL
DATE: 03/18/10	BY: B.T.
DATE: 03/18/10	BY: A.L.
NO. 9981022-2	REV. A
SHEET 1 OF 1	

**NOTES:**  
 1. ALL DIMENSIONS ARE IN INCHES.  
 2. ALL UNDIMENSIONED PICTORIAL CONFIGURATIONS ARE FOR REFERENCE ONLY.  
 3. FRONT AND REAR MARKING FOR REFERENCE ONLY.  
 4. EXTERIOR COLOR OLIVE DRAB GREEN, COLOR #34031 OF FED-STD-595B, CARG TREATED.  
 5. SILKSCREEN # 100858 IN WHITE EPOXY INK.

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