

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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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: +1% / -3% 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
1	DESCRIPTION			
2	CHANGED HANDLE AND PAINT SPECS.	RL	BT	3/28/10

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

NOVA ELECTRIC A DIV. OF TECHNOLOGY DYNAMICS, INC. 100 SCHOOL STREET BERGENFIELD, N.J. 07621-2915		TITLE OUTLINE DRAWING PORTABLE OCGL2K INVERTER	
DATE	BY	DATE	BY
03/18/10	RL	03/18/10	BT
03/18/10	BT	03/18/10	BT
03/18/10	AL	03/18/10	AL
SOLE		DATE	SHEET
9981022-2		2010	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, CARGO TREATED.
 5. SILKSCREEN # 100858 IN WHITE EPOXY INK.

