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JARXIOKE 12V-3000w

JARXIOKE 3000W Modified Sine Wave Power Inverter User Manual

Model: 12V-3000w

1. INTRODUCTION

Thank you for choosing the JARXIOKE 3000W Modified Sine Wave Power Inverter. This device converts 12V DC power from your vehicle battery or other 12V DC source into 110V/120V AC household power, allowing you to operate various electronic devices and appliances on the go. This manual provides essential information for safe and efficient operation, installation, and maintenance of your inverter.



Image 1.1: JARXIOKE 3000W Power Inverter with included accessories.

2. SAFETY INSTRUCTIONS

Read all safety warnings and instructions carefully before using the inverter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Ventilation:** Ensure adequate ventilation around the inverter. Do not block ventilation openings.
- **Environment:** Do not expose the inverter to rain, moisture, direct sunlight, or extreme temperatures. Operate in a dry, cool, and well-ventilated area.
- **Flammable Materials:** Do not operate the inverter near flammable materials, gases, or vapors.
- **Electrical Connections:** Ensure all DC input and AC output connections are secure and correctly polarized. Loose connections can cause overheating and damage.
- **Grounding:** The inverter should be properly grounded. Consult a qualified electrician if unsure.
- **Overload:** Do not exceed the inverter's continuous power rating. Overloading can damage the inverter and connected devices.
- **Children:** Keep the inverter out of reach of children.

- **Maintenance:** Do not attempt to disassemble or modify the inverter. Refer all servicing to qualified personnel.



Image 2.1: Inverter internal components highlighting multiple protection features.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x JARXIOKE 3000W Modified Sine Wave Power Inverter (12V DC to 110V/120V AC)
- 1x User Manual
- 1x Set of 10² Battery Cables (1x Red, 1x Black)
- 1x Remote Control



Image 3.1: Inverter package contents and typical applications.

4. PRODUCT OVERVIEW AND FEATURES

The JARXIOKE 3000W Power Inverter is designed for reliable power conversion with several key features:

- **Continuous Power:** 3000 Watts
- **Peak Power:** 6000 Watts
- **Input Voltage:** 12V DC
- **Output Voltage:** 110V/120V AC
- **AC Outlets:** 3
- **USB Port:** 1 (3.4A)
- **Remote Control:** Wireless control for convenient operation within approximately 100 meters.
- **LED Display:** Provides real-time status information including input voltage, output voltage, output frequency, battery level, and fan status.

- **Safety Protections:** Overvoltage, undervoltage, overload, short circuit, overheat, and soft start technology.
- **Cooling System:** Equipped with dual cooling fans for efficient heat dissipation.

4.1 Inverter Panel Description



Image 4.1: Front and rear panel descriptions of the inverter.

Front Panel:

- **LCD Display:** Shows operational status.
- **USB Ports:** For charging USB-powered devices.
- **Power Switch:** Main ON/OFF switch for the inverter.
- **AC Sockets:** Three standard 110V/120V AC outlets.

Rear Panel:

- **Negative Terminal (Black):** Connects to the negative terminal of the 12V DC battery.
- **Positive Terminal (Red):** Connects to the positive terminal of the 12V DC battery.
- **Intelligent Cooling Fans:** Automatically activate to dissipate heat.

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your inverter.

5.1 Connecting to a 12V DC Power Source

1. Ensure the inverter's power switch is in the OFF position.
2. Connect the red battery cable to the positive (+) terminal of your 12V DC battery.
3. Connect the other end of the red cable to the positive (+) terminal on the inverter.
4. Connect the black battery cable to the negative (-) terminal of your 12V DC battery.
5. Connect the other end of the black cable to the negative (-) terminal on the inverter.
6. Ensure all connections are tight and secure to prevent arcing or overheating.

Important: Always connect the inverter to a 12V DC battery. Connecting to a 24V or higher voltage source will damage the inverter.

5.2 Ventilation and Placement

- Place the inverter on a flat, stable surface.
- Ensure there is at least 6 inches (15 cm) of clear space around the inverter for proper airflow.
- Avoid placing the inverter in direct sunlight or near heat sources.

5.3 Optional: Solar Panel Connection

The inverter can be integrated into a solar power system. This typically involves connecting solar panels to a charge controller, which then charges a 12V deep cycle battery. The inverter then draws power from this battery.

BY CONNECTING TO THE SOLAR PANEL AND USING THE CONTROLLER



Image 5.1: Example of solar panel connection for charging a 12V battery that powers the inverter.

6. OPERATING INSTRUCTIONS

Follow these steps to operate your JARXIOKE power inverter.

6.1 Powering On the Inverter

1. After ensuring all DC connections are secure, press the power switch on the inverter to the ON position.
2. The LED display will illuminate, showing the input voltage, output voltage, and other status indicators.

6.2 Connecting AC Devices

1. Plug your 110V/120V AC devices into the AC outlets on the front panel of the inverter.
2. Ensure the total wattage of all connected devices does not exceed the inverter's continuous power rating (3000W).
3. For devices with high starting current (e.g., motors, compressors), ensure their surge wattage is within the

inverter's peak capacity (6000W).

6.3 Using the USB Port

Plug your USB-powered devices into the 3.4A USB port for charging.

6.4 Remote Control Operation

The included remote control allows you to turn the inverter ON/OFF from a distance (up to 100 meters).

1. Ensure the inverter's main power switch is in the OFF position before attempting to use the remote to turn it ON.
2. Press the 'ON' button on the remote to activate the inverter.
3. Press the 'OFF' button on the remote to deactivate the inverter.



Image 6.1: Intelligent LCD Display showing operational parameters.



Image 6.2: Remote control for the inverter.

7. TROUBLESHOOTING

If you encounter issues with your inverter, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No power output	Inverter switch OFF; Loose battery connections; Low battery voltage; Blown fuse	Turn inverter ON; Check and tighten battery cables; Recharge or replace battery; Check and replace internal fuses (professional service recommended)
Low output voltage	Overload; Low battery voltage; Excessive cable length/gauge	Reduce load; Recharge battery; Use shorter/thicker battery cables
Inverter shuts down (Overload)	Connected load exceeds 3000W continuous or 6000W peak	Reduce the total wattage of connected devices. Restart the inverter.
Inverter shuts down (Overheat)	Poor ventilation; High ambient temperature; Blocked cooling fans	Ensure adequate ventilation; Move inverter to a cooler location; Clear any obstructions from cooling fans.
Remote control not working	Inverter main switch is ON; Remote battery low; Out of range	Ensure inverter main switch is OFF before using remote; Replace remote battery; Operate within 100 meters.

8. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your inverter.

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Ensure ventilation openings and cooling fans are free from dust and debris.
- **Connections:** Regularly check all DC input and AC output connections for tightness. Loose connections can lead to power loss and overheating.
- **Storage:** If storing the inverter for an extended period, ensure it is in a cool, dry place, away from direct sunlight and moisture. Disconnect it from the battery.

- **Battery Maintenance:** Ensure your 12V DC battery is properly maintained and charged according to its manufacturer's instructions. A healthy battery is essential for inverter performance.



Image 8.1: Inverter cooling fan for heat dissipation.

9. SPECIFICATIONS

Technical specifications for the JARXIOKE 3000W Modified Sine Wave Power Inverter:

Feature	Specification
Model Name	12V-3000w
Continuous Output Power	3000 Watts
Peak Output Power	6000 Watts
Input Voltage	12V DC
Output Voltage	110V/120V AC
Output Frequency	60 Hz
USB Output	3.4A (5V DC)
AC Outlets	3
Power Source	Battery Powered
Item Weight	10.67 pounds
Package Dimensions	17.09 x 9.72 x 8.23 inches
Recommended Uses	Boat, Camping, Car, Home, Recreational Vehicle, Truck, Workshop

10. WARRANTY AND SUPPORT

The JARXIOKE 3000W Modified Sine Wave Power Inverter comes with a 24-month maintenance period from the date of purchase, covering manufacturing defects.

For technical support, warranty claims, or any questions regarding your product, please contact JARXIOKE customer service through the retailer where the product was purchased. Please have your purchase receipt and product model number ready when contacting support.

Related Documents - 12V-3000w

	<p>JARXIOKE Inverter Model Differences: JXK Series</p> <p>Overview of model differences for JARXIOKE JXK series inverters, including models JXK-4000W, JXK-2500W, JXK-1500W, JXK-2000W, JXK-3000W, and JXK-5000W. All models share the same circuit and RF module.</p>
	<p>KAUWOX Pure Sine Wave Inverter User Manual & Specifications</p> <p>Comprehensive user manual and technical specifications for the KAUWOX Pure Sine Wave Inverter. Learn about product features, applications, installation, wiring, safety precautions, troubleshooting, and warranty.</p>
	<p>How to Ground an Inverter Safely and Effectively</p> <p>Essential guide on grounding power inverters for safety and optimal performance. Covers various installation scenarios including indoor, outdoor, and vehicle use, with important warnings.</p>
	<p>OUBOTEK Pure Sine Wave Inverter User Manual</p> <p>User manual for OUBOTEK Pure Sine Wave Inverters, covering introduction, technical parameters, safety, protective functions, product characteristics, connection, installation, precautions, usage, and troubleshooting.</p>
	<p>HOULI Power Inverter User Manual and Specifications</p> <p>Comprehensive user manual and technical specifications for HOULI Power Inverters with UPS function and pure sine wave output, covering installation, operation, safety, and product parameters.</p>

	<p>Li Time 3000W Li Time 3000W</p> <p>12V DC 100V AC</p>
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