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JJN 1100W-US

JJN 1100 Watt Modified Sine Wave Power Inverter User Manual

Model: 1100W-US | Brand: JJN

Introduction

Thank you for choosing the JJN 1100 Watt Modified Sine Wave Power Inverter. This device efficiently converts 12V DC power from your battery into 110V AC power, suitable for a wide range of household and outdoor appliances. Designed for reliability and ease of use, this inverter is an ideal solution for off-grid applications, camping, RVs, and emergency power needs. Please read this manual thoroughly before operation to ensure safe and optimal performance.



Image: The JJN 1100 Watt Power Inverter shown with its included accessories, including battery cables, remote control, and spare fuses.

Safety Information

WARNING: Failure to follow these safety instructions may result in electric shock, fire, and/or serious injury.

- Ensure proper ventilation around the inverter. Do not cover ventilation openings.
- Do not expose the inverter to rain, moisture, or extreme temperatures.
- Connect the inverter only to a 12V DC power source. Connecting to other voltages may damage the unit.
- Always connect the ground wire properly.
- Do not open the inverter casing. There are no user-serviceable parts inside.
- Keep out of reach of children.
- Disconnect the inverter from the battery before performing any maintenance or cleaning.



Image: A visual representation highlighting the inverter's comprehensive protection features, including short circuit, over-voltage, isolated input/output, overheat, overload, and low voltage protection.

Package Contents

Please check the package for the following items:

- 1x JJN 1100W Power Inverter
- 1x Pair of Battery Cables (1x Red, 1x Black)
- 1x Remote Control with Cable
- 1x User Manual (This Document)
- Spare Fuses (4 included)

Product Overview

Familiarize yourself with the components of your JJN Power Inverter:



Image: Detailed diagram illustrating the various parts of the inverter, including AC outlets, USB port, cooling fans, power LED, fault LED, and battery terminals.

Inverter Components

Component	Description
AC Outlets (x2)	Standard 110V AC outlets for connecting your devices.
2.1A USB Port	For charging USB-powered devices like smartphones and tablets.
ON/OFF Switch	Main power switch for the inverter.
Power LED	Indicates when the inverter is powered on and operating normally (Green).
Fault LED	Illuminates when an error or fault condition is detected (Red).
Cooling Fans (x2)	Automatically activate to dissipate heat and prevent overheating.
Positive (+) Terminal	Red terminal for connecting the positive battery cable.

Component	Description
Negative (-) Terminal	Black terminal for connecting the negative battery cable.
Remote Control Port	RJ45 port for connecting the included remote control.

Setup

1. Battery Connection

Follow these steps to connect the inverter to your 12V DC battery:

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

Your browser does not support the video tag.

Video: Demonstrates the correct procedure for connecting the JJN Power Inverter to a 12V battery, showing both positive and negative terminal connections. (Relevant segment: 0:08 - 0:25)

2. Remote Control Connection

The included remote control allows for convenient operation of the inverter from a distance:

1. Locate the RJ45 port on the inverter, labeled "REMOTE CONTROL".
2. Plug one end of the remote control cable into this port.
3. Plug the other end of the cable into the remote control unit.
4. The remote control can now be used to power the inverter on or off.

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Video: Illustrates how to connect the remote control to the JJN Power Inverter for convenient remote operation. (Relevant segment: 0:34 - 0:45)

Operating Instructions

1. Powering On/Off

- To turn on the inverter, press the ON/OFF switch on the unit or the power button on the remote control. The green Power LED will illuminate.
- To turn off the inverter, press the ON/OFF switch or the power button on the remote control again. The green Power LED will turn off.

2. Connecting Devices

Once the inverter is powered on, you can connect your AC and USB devices:

- For AC devices, plug them into the 110V AC outlets on the inverter. Ensure the total wattage of connected devices does not exceed 1100W continuous power.
- For USB devices, plug them into the 2.1A USB port.

Your browser does not support the video tag.

Video: Shows the inverter powering and charging a smartphone via its USB port and a laptop via its AC outlet, demonstrating its versatility. (Relevant segment: 0:29 - 0:33 for phone, 0:46 - 0:50 for laptop)



Image: The JJN Power Inverter connected to a car battery, actively powering a laptop and charging a smartphone, showcasing its portable power capabilities.



Image: The JJN Power Inverter on a kitchen counter, demonstrating its ability to power household appliances like a toaster, emphasizing stable power delivery.

3. Usage Scenarios

The JJN Power Inverter is versatile and can be used in various situations:

- **Home Use:** Ideal for powering essential electronics during power outages.
- **Outdoor Activities:** Perfect for camping, tailgating, and other outdoor events where grid power is unavailable.
- **RV & Travel:** Provides convenient AC power for appliances in your RV or vehicle during trips.
- **Off-Grid Solar Systems:** Integrates seamlessly into solar power setups to convert DC solar energy into usable AC power.



Image: The JJN 1100W Power Inverter positioned near an RV in an outdoor setting, illustrating its utility for camping and travel power needs.

Maintenance

To ensure the longevity and optimal performance of your inverter, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Keep the cooling fans and ventilation openings clear of dust and debris. Blocked vents can lead to overheating.
- **Connections:** Periodically check all electrical connections (battery cables, AC plugs) to ensure they are tight and free from corrosion.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place away from direct sunlight and moisture.
- **Fuse Replacement:** If the inverter stops working and the Fault LED is on, check the fuses. Replace blown fuses only with fuses of the same type and rating (refer to specifications).

Troubleshooting

If you encounter issues with your JJN Power Inverter, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
Inverter not turning on	Loose battery connections, low battery voltage, blown fuse, faulty switch.	Check battery cable connections. Recharge or replace battery. Check and replace fuses. Ensure ON/OFF switch is fully engaged.
No AC output, Fault LED on	Overload, short circuit, over-temperature, input over/under voltage.	Reduce connected load. Disconnect all loads and restart. Allow inverter to cool down. Check battery voltage.
Device not charging via USB	Faulty USB cable, device not compatible, inverter off.	Try a different USB cable. Ensure inverter is on. Check device's charging requirements.
Fans constantly running or very loud	High internal temperature, heavy load.	This is normal under heavy load or high ambient temperatures. Ensure proper ventilation.

Specifications

Feature	Detail
Model Name	JJN Power Inverter
Item Model Number	1100W-US
Continuous Power	1100 Watts
Peak Power	2000 Watts
Input Voltage	12V DC
Output Voltage	110V AC
Output Waveform	Modified Sine Wave
USB Output	5V/2.1A
Product Dimensions	10 x 8.07 x 3.45 inches
Item Weight	5.5 pounds
Color	Blue
Protection Features	Input overvoltage, under-voltage, overload, output short circuit, overheat.

Warranty and Support

JJN provides an 18-month warranty for this product. For any questions, technical support, or warranty claims, please contact JJN Customer Service. We are committed to providing 24-hour professional customer service.
You can visit the official JJN Store for more information and contact details:JJN Store on Amazon

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