Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

DEWIN DEWIN1000

DEWIN 1000W Solar Power Inverter User Manual

Model: DEWIN1000

1. Introduction

Thank you for choosing the DEWIN 1000W Solar Power Inverter. This device is designed to convert 12V DC power from sources like car batteries into 220V AC power, suitable for various household appliances. Its compact and lightweight design makes it highly portable and easy to use.
Key features include:

- **New Design:** Lightweight and user-friendly.
- **Multiple Protection Functions:** Protects the converter and battery from overload and other issues.
- **Safe and Reliable:** Provides stable AC power for household appliances like televisions, video cameras, and power tools.
- **Durable Material:** Constructed from durable aluminum alloy for advanced protection against drops and collisions.
- **Portable:** Ultra-compact and lightweight, saving space and convenient for transport.

2. Safety Instructions

Please read all safety instructions carefully before operating the inverter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Keep Away from Children:** This device is not a toy. Keep it out of reach of children.
- **Avoid Water Sources:** Do not expose the inverter to water or operate it in wet environments.
- **Correct Connections:** Ensure all electrodes and cables are connected correctly and securely before operation. Incorrect polarity can damage the inverter and connected devices.
- **Ventilation:** Ensure adequate ventilation around the inverter to prevent overheating. Do not block the fan vents.
- **Indoor Use:** This inverter is designed for indoor use or in protected environments.
- **Load Capacity:** Do not exceed the rated power output of 1000W. Overloading can cause damage to the inverter and connected appliances.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified electrician.

3. Product Overview

The DEWIN 1000W Inverter comes with the main unit and necessary cabling for connection.



Figure 3.1: DEWIN 1000W Inverter and included battery clamp cables and cigarette lighter cable.



Figure 3.2: Front panel of the inverter, featuring the universal AC 220V outlet, a USB charging port, and the ON/OFF power switch. Power and Fault indicator lights are also visible.



Figure 3.3: Side panel of the inverter, showing the positive (+) and negative (-) DC input terminals for battery connection, and the integrated cooling fan for heat dissipation.



Figure 3.4: Approximate dimensions of the DEWIN 1000W Inverter: 19.5 cm (7.68 in) length, 9.5 cm (3.74 in) width, and 5.5 cm (2.17 in) height.

Package Contents:

- 1 x DEWIN 1000W Power Inverter
- 3 x Connection Cables (Battery clamp cables and cigarette lighter cable)
- 1 x User Manual

4. Setup

Follow these steps to set up your DEWIN 1000W Inverter:

1. **Prepare the Power Source:** Ensure your 12V DC power source (e.g., car battery) is fully charged and capable of providing the necessary current for your appliances.
2. **Connect DC Cables:**
    - Connect the **red** battery clamp cable to the **positive (+)** terminal of the inverter and the positive (+) terminal of your 12V battery.
    - Connect the **black** battery clamp cable to the **negative (-)** terminal of the inverter and the negative (-) terminal of your 12V battery.
    - *Alternatively, for lower power devices, you can use the cigarette lighter cable by plugging it into your vehicle's 12V cigarette lighter socket and connecting the other end to the inverter's DC input.*

Important: Ensure connections are tight and secure to prevent arcing and overheating. Double-check polarity before proceeding.

3. **Position the Inverter:** Place the inverter on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure the cooling fan is not obstructed.
4. **Connect Appliances:** With the inverter's power switch in the "OFF" position, plug your AC 220V appliances into the inverter's AC outlet. Do not exceed the inverter's 1000W continuous power rating.

5. Operating Instructions

Once the inverter is set up, follow these steps to operate it:

1. **Turn On the Inverter:** Flip the ON/OFF switch on the inverter's front panel to the "ON" position. The "Power" indicator light should illuminate, indicating the inverter is active.
2. **Monitor Indicators:**
    - **Power Indicator (Green):** Lit when the inverter is operating normally.
    - **Fault Indicator (Red):** Lit when an error occurs (e.g., overload, short circuit, low voltage, high temperature). If this light illuminates, turn off the inverter immediately and troubleshoot the issue.
3. **Use Appliances:** Your connected AC appliances can now be used. For optimal performance and safety, avoid running high-power appliances for extended periods without adequate ventilation.
4. **USB Charging:** The USB port can be used to charge compatible USB devices.
5. **Turn Off:** When finished, first turn off all connected appliances, then switch the inverter's ON/OFF switch to the "OFF" position. Disconnect the inverter from the 12V power source.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your inverter:

- **Cleaning:** Periodically clean the exterior of the inverter with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the cooling fan and vents are free from dust and debris. Use compressed air to clear any blockages if necessary.
- **Cable Connections:** Regularly check all cable connections for tightness and signs of corrosion. Clean and re-tighten as needed.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Health:** Ensure the 12V battery connected to the inverter is well-maintained and charged to prevent low voltage cut-off issues.

7. Troubleshooting

If you encounter issues with your DEWIN 1000W Inverter, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power output / Inverter not turning on	Inverter switch is OFF Loose battery connections Low battery voltage Blown fuse in the inverter or vehicle	Turn the switch to ON. Check and tighten all battery cable connections. Recharge or replace the 12V battery. Check and replace fuses if necessary (consult a professional).
Fault indicator (Red) is lit	Overload (too many appliances or high power draw) Short circuit in connected appliance or wiring Overheating (poor ventilation) Input voltage too high or too low	Reduce the load by disconnecting some appliances. Check appliances and wiring for shorts. Ensure proper ventilation; allow inverter to cool down. Verify input voltage is within 12V DC range.
Appliances not working correctly	Appliance power draw exceeds inverter capacity Appliance requires pure sine wave inverter (this is a modified sine wave inverter)	Check appliance wattage and ensure it's below 1000W. Some sensitive electronics (e.g., medical equipment, certain motors) may not operate correctly with modified sine wave inverters.

8. Specifications

Parameter	Value
Item Type	1000W Power Inverter
Brand	DEWIN
Model Number	DEWIN1000
Material	Aluminum Alloy
Power (Continuous)	1000W
Input Voltage	12V DC
Output Voltage	220V AC
Overall Size (Approx.)	19.5 x 9.5 x 5.5 cm / 7.68 x 3.74 x 2.17 inches
Power Source	Solar Energy (implies compatibility with solar charging systems for 12V batteries)

Note: Manual measurement of parameters may have slight errors.

9. Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your purchase or contact DEWIN customer service through your retailer.

© 2023 DEWIN. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0BMG4BWMF

More documents and user manuals: **https://manuals.plus/**