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ShockFlo 1000W

ShockFlo 1000W Pure Sine Wave Power Inverter User Manual

Model: 1000W | Brand: ShockFlo

1. Introduction

This manual provides essential information for the safe and efficient operation of your ShockFlo 1000W Pure Sine Wave Power Inverter. This device converts 12V DC power from a battery to 110V AC power, suitable for various household, RV, and truck applications. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

2. Safety Information

WARNING: Improper installation or use can result in electric shock, fire, or serious injury. Always follow these safety guidelines:

- Ensure the inverter is installed in a well-ventilated area, away from flammable materials, moisture, and direct sunlight.
- Connect the inverter only to a 12V DC power source. Do not connect to 24V or higher DC systems.
- Always connect the negative (-) terminal first, then the positive (+) terminal. When disconnecting, disconnect the positive (+) terminal first, then the negative (-).
- Ensure all connections are tight and secure to prevent overheating and arcing.
- Do not overload the inverter. The maximum continuous output is 1000 watts.
- Keep children away from the inverter.
- Do not disassemble or attempt to repair the inverter yourself. Refer to qualified service personnel.
- The inverter features multiple protection mechanisms including low voltage, over voltage, overload, over current, short circuit, and over temperature protection.



Figure 2.1: The inverter incorporates 7 safety protection features, including low voltage, over voltage, overload, over current, USB short circuit, short circuit, and over temperature protection, ensuring reliable operation and user safety.

3. Package Contents

Verify that all items are present in the package:

- 1 x ShockFlo 1000W Pure Sine Wave Power Inverter
- 1 x AWG (American Wire Gauge) Cable Set (Red for Positive, Black for Negative)

- 1 x Remote Controller with cable
- User Manual (this document)



Figure 3.1: The ShockFlo 1000W Pure Sine Wave Power Inverter package includes the main inverter unit, a set of heavy-duty AWG cables (red and black), and a wired remote controller for convenient operation.

4. Product Overview

The ShockFlo 1000W Pure Sine Wave Power Inverter is designed for efficient and stable power conversion. It features multiple output ports and intelligent cooling.

4.1 Key Features

- **Pure Sine Wave Output:** Provides clean and stable power, suitable for sensitive electronics, minimizing energy loss with over 90% conversion efficiency.
- **Multiple Output Ports:** Equipped with 2 AC outlets, 3 USB-A ports (2.4A and QC 3.0), and 1 USB-C PD port (30W Max) to power up to 6 devices simultaneously.
- **Intelligent Cooling Fans:** Features noiseless smart fans with auto speed control to prevent overheating and ensure

optimal performance.

- **Remote Control:** Includes a wired remote controller for convenient power management from a distance.
- **Comprehensive Protection:** Built-in 7-fold safety protection against low voltage, over voltage, overload, over current, USB short circuit, short circuit, and over temperature.



Figure 4.1: The inverter's output panel features two 110V AC outlets, three USB-A ports (two 2.4A, one QC 3.0), and one USB-C PD (30W Max) port, allowing simultaneous charging and powering of multiple devices.



Figure 4.2: The inverter is equipped with silent cooling fans that feature noiseless smart fan technology and auto speed control, ensuring efficient heat dissipation and quiet operation.

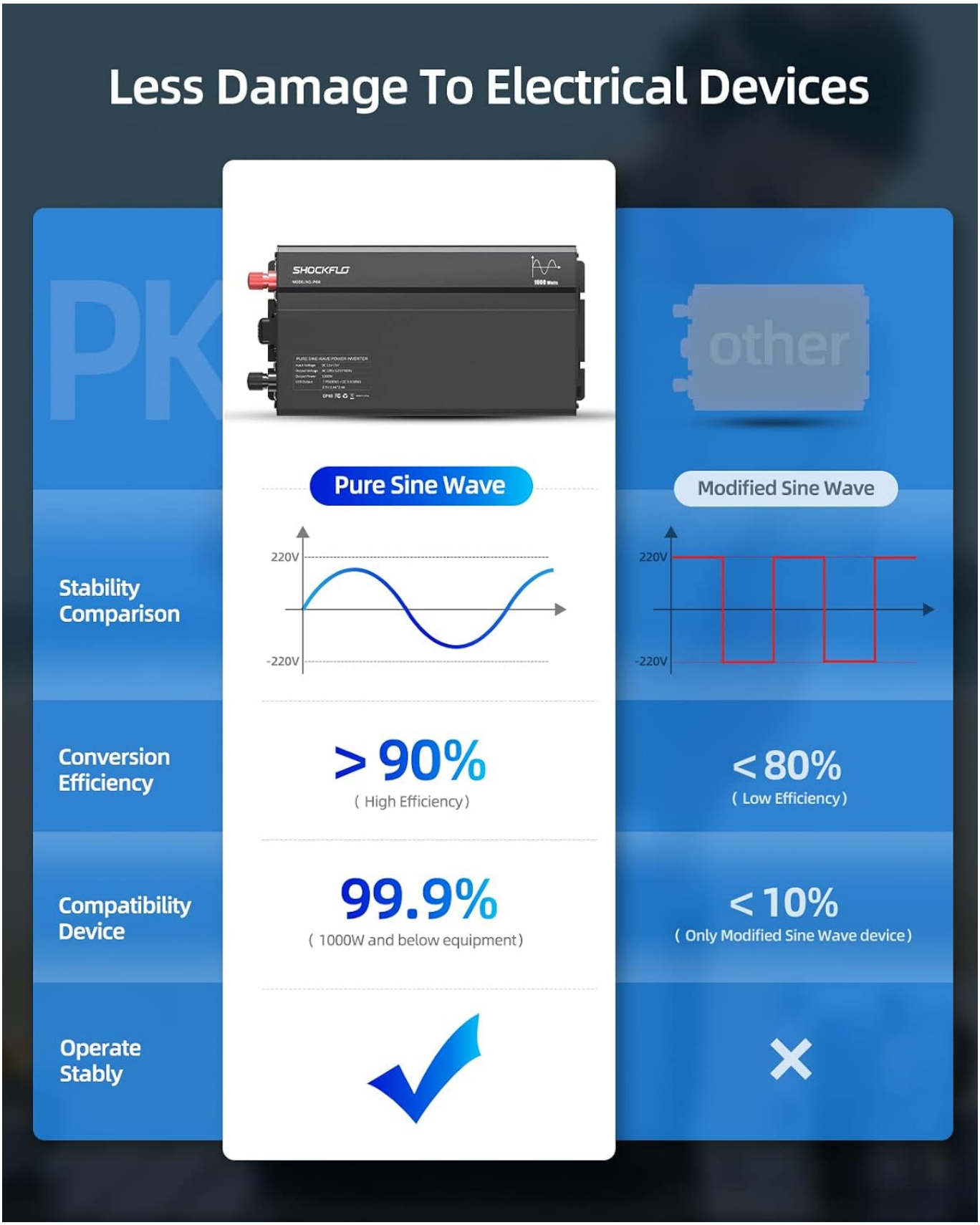


Figure 4.3: This comparison highlights the superior stability and conversion efficiency of pure sine wave inverters (like the ShockFlo 1000W) compared to modified sine wave inverters, making them compatible with a wider range of electrical devices.

5. Setup and Installation

Proper installation is crucial for the inverter's performance and safety. The inverter has mounting lips on its sides for secure installation.

5.1 Connecting the Power Cables

1. Ensure the inverter's power switch is in the "OFF" position.
2. Unscrew the nuts on the positive (+) and negative (-) terminals of the inverter.
3. Connect the **red** cable (positive) to the inverter's **red (+)** terminal. Ensure the connection is tight and secure.
4. Connect the **black** cable (negative) to the inverter's **black (-)** terminal. Ensure the connection is tight and secure.
5. Connect the other end of the **red** cable to the **positive (+)** terminal of your 12V DC battery.
6. Connect the other end of the **black** cable to the **negative (-)** terminal of your 12V DC battery.
7. **IMPORTANT:** Always ensure correct polarity (red to positive, black to negative). Reversing polarity can severely damage the inverter and battery.

5.2 Connecting the Remote Controller

1. Locate the remote control port on the inverter (typically an RJ45-style port).
2. Plug the remote controller's cable into this port.
3. Mount the remote controller in a convenient location within your vehicle or home.



Figure 5.1: The wired remote control allows for convenient operation of the inverter from a distance, ideal for installations where the inverter itself is not easily accessible, such as in the back of a van or RV.

6. Operating Instructions

1. After successful installation, turn on the inverter using the ON/OFF switch on the unit or the remote controller.
2. The LCD display will show the DC input voltage.
3. Plug your AC devices into the 110V AC outlets.

4. Plug your USB devices into the appropriate USB-A or USB-C ports.
5. Ensure the total wattage of all connected devices does not exceed 1000 watts.
6. When finished, turn off the inverter.



Figure 6.1: The 1000W maximum output allows the inverter to power high-wattage appliances such as drones, projectors, mini-fridges, and electric grills, making it versatile for various outdoor and off-grid applications.

7. Maintenance

- Keep the inverter clean and free from dust and debris.
- Ensure the cooling fans are not obstructed.
- Regularly check all cable connections for tightness and signs of corrosion.
- The inverter has replaceable fuses. If a fuse blows, replace it with one of the same type and rating.
- Store the inverter in a cool, dry place when not in use.

8. Troubleshooting

Problem	Possible Cause	Solution
Inverter not turning on	Loose battery connections, low battery voltage, blown fuse, faulty switch.	Check and tighten battery connections. Charge battery if voltage is low. Replace blown fuses. Ensure ON/OFF switch is engaged.
No AC output	Overload, short circuit, high temperature, low battery voltage.	Reduce load. Check for short circuits in connected devices. Allow inverter to cool down. Charge battery.
Overheating	Excessive load, poor ventilation, obstructed fans, loose connections.	Reduce load. Ensure adequate ventilation around the inverter. Clear any obstructions from fans. Check and tighten all connections, especially the positive terminal as reported by some users.
USB ports not charging	USB short circuit, device incompatibility.	Disconnect and reconnect USB devices. Ensure devices are compatible with the USB output specifications.

9. Specifications

Specification	Value
Brand	ShockFlo
Model Name	ShockFlo 1000W
Rated Power	1000 watts
Peak Power	2000 watts
DC Input Voltage	12 Volts (DC) / 11-15.5V
AC Output Voltage	110V AC
USB Output	2.4A (USB-A), QC 3.0 (USB-A), 30W Max (USB-C PD)
Waveform	Pure Sine Wave
Conversion Efficiency	>90%
Item Weight	5.56 pounds
Product Dimensions	11.37 x 3.97 x 5.9 inches



Figure 9.1: The compact dimensions of the inverter (11.37 x 3.97 x 5.9 inches) make it suitable for installation in various spaces within a vehicle or home setup.

10. Warranty and Support

For warranty claims or technical support, please contact the seller or manufacturer directly. It is recommended to retain your proof of purchase for any warranty-related inquiries.

Note: *Some user feedback indicates potential challenges with manufacturer warranty claims and support. Please verify*

current support channels and warranty terms with the seller at the time of purchase.

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