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FORYON FORYON

FORYON 3000W Pure Sine Wave Inverter User Manual

Model: FORYON

1. Introduction

This manual provides essential instructions for the safe and efficient operation of your FORYON 3000W Pure Sine Wave Inverter. This device converts 12V DC battery power into 220V AC household power, suitable for a wide range of electronic devices and appliances. Please read this manual thoroughly before installation and use, and retain it for future reference.

2. Safety Instructions

Adhering to these safety guidelines is crucial to prevent personal injury and damage to the inverter or connected equipment.

- **Ventilation:** Ensure the inverter is installed in a well-ventilated area. Do not block the cooling fan or air vents.
- **Environment:** Avoid exposure to water, rain, snow, spray, or excessive dust. Do not operate in areas with flammable fumes or gases.
- **Connections:** Always connect the inverter to a 12V DC power source. Ensure correct polarity (+ to + and - to -) to prevent damage. Use appropriate gauge cables for connections.
- **Grounding:** The inverter should be properly grounded.
- **Load Capacity:** Do not exceed the inverter's continuous power rating (2600W) or peak power rating (3000W). Overloading can cause damage and fire hazards.
- **Maintenance:** Do not attempt to open or service the inverter yourself. Refer all servicing to qualified personnel.
- **Children:** Keep the inverter out of reach of children.

3. Product Features

- **True Pure Sine Wave Output:** Provides high-quality, stable AC power, suitable for sensitive electronics and extending battery life for cordless tools.
- **Comprehensive Protection:** Includes safeguards against over voltage, low voltage, overload, short circuit, over heat, and reverse polarity (via fuse). Features an under-voltage protection point to prevent battery drain.
- **Wide Application:** Suitable for powering various home appliances such as refrigerators, air conditioners, TVs, computers, lights, fans, and microwaves.
- **Durable Construction:** Features an aluminum alloy housing for robust protection and efficient heat dissipation.

- **Intelligent Cooling Fan:** High-speed fan automatically activates to reduce heat and maintain optimal operating temperature.
- **USB Charging Ports:** Equipped with USB ports for charging mobile devices.

4. Package Contents

Please check the package for the following items:

- FORYON 3000W Pure Sine Wave Inverter
- Battery Connection Cables (Red for Positive, Black for Negative)
- User Manual

5. Component Identification

Familiarize yourself with the various parts of your inverter:



Figure 5.1: Front view of the FORYON 3000W Pure Sine Wave Inverter, showing the AC output socket, USB port, and power specifications printed on the casing.

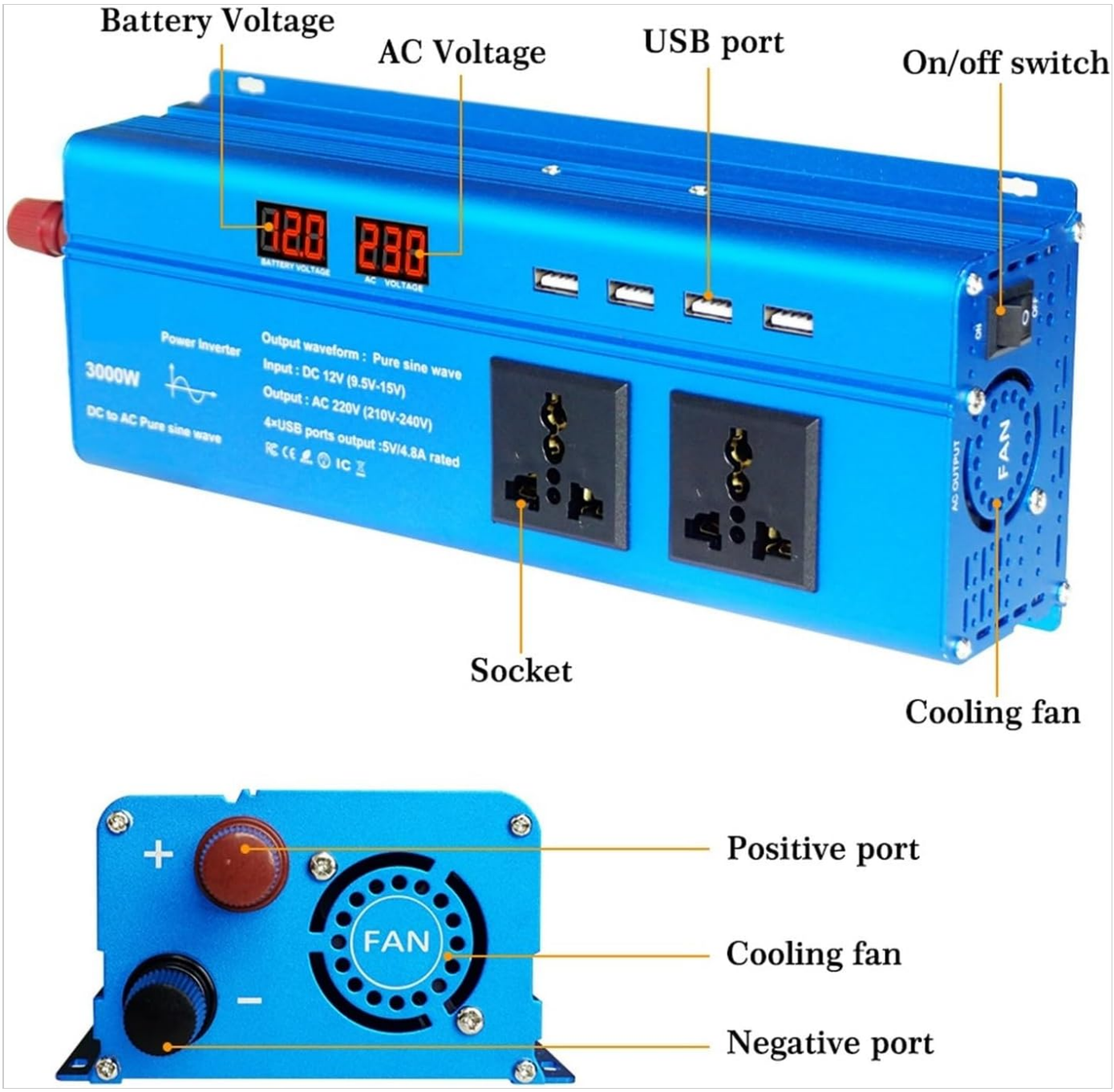


Figure 5.2: Detailed view of the inverter's control panel and ports. Labels indicate the Battery Voltage display, AC Voltage display, USB ports, On/off switch, AC output sockets, and cooling fan. The rear panel shows the positive and negative battery connection terminals.

1. Battery Voltage Display: Shows the current DC input voltage from the battery.

2. AC Voltage Display: Shows the current AC output voltage.

3. USB Ports: For charging USB-powered devices (5V/4.8A total).

4. On/Off Switch: Powers the inverter on or off.

5. AC Output Sockets: For connecting 220V AC appliances.

6. Cooling Fan: Dissipates heat during operation.

7. Positive Port (+): Red terminal for positive battery connection.

8. Negative Port (-): Black terminal for negative battery connection.

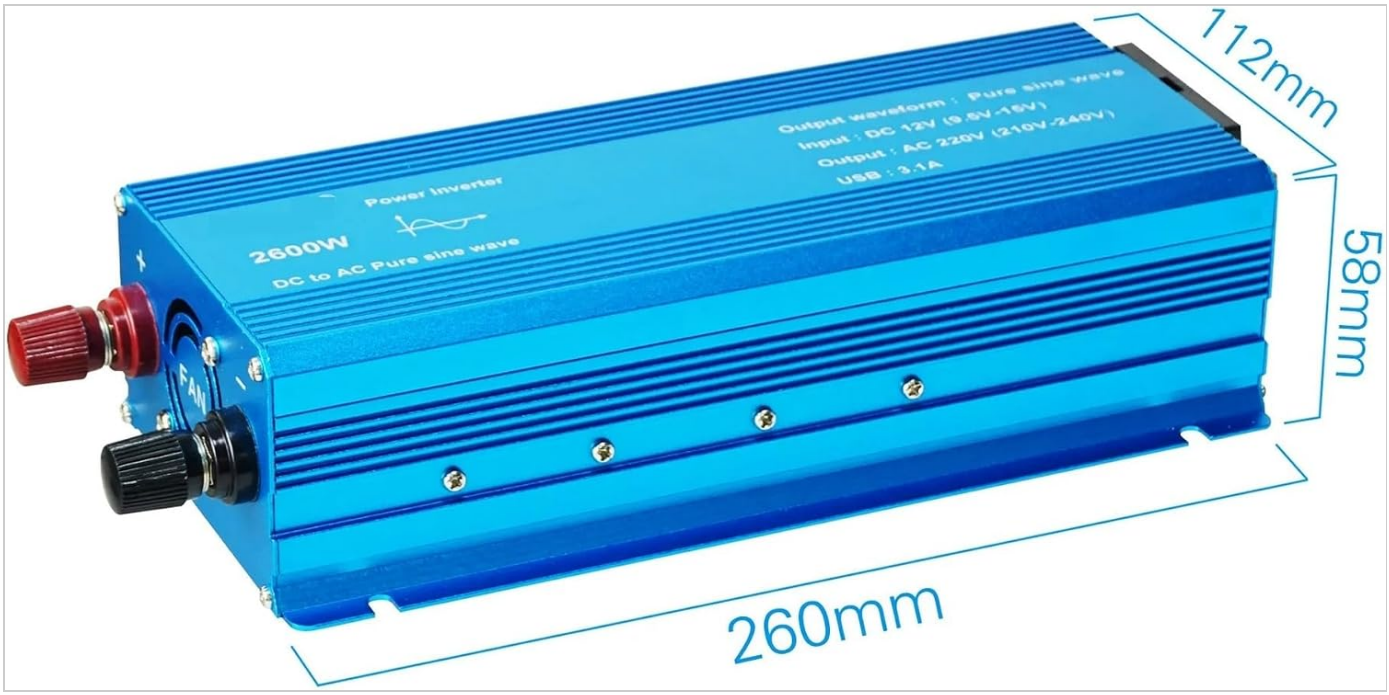


Figure 5.3: Dimensions of the FORYON 3000W Pure Sine Wave Inverter, measuring approximately 260mm in length, 112mm in width, and 58mm in height.

6. Setup and Installation

Follow these steps for proper installation:

1. **Placement:** Choose a dry, cool, and well-ventilated location for the inverter. Ensure there is sufficient space around the unit for airflow, especially around the cooling fan. Avoid direct sunlight and heat sources.
2. **Battery Connection:**
    - Ensure the inverter's power switch is in the "OFF" position.
    - Connect the red battery cable to the positive (+) terminal of the inverter and then to the positive (+) terminal of your 12V battery.
    - Connect the black battery cable to the negative (-) terminal of the inverter and then to the negative (-) terminal of your 12V battery.
    - Verify all connections are tight and secure to prevent loose connections, which can cause overheating.
3. **Grounding:** Connect the inverter's grounding terminal to a proper earth ground.
4. **Initial Check:** Before connecting any AC appliances, double-check all connections.

7. Operating Instructions

1. **Power On:** After ensuring all connections are secure, switch the inverter's power button to the "ON" position. The battery voltage and AC output voltage displays should illuminate.
2. **Connect Appliances:** Plug your 220V AC appliances into the inverter's AC output sockets. Ensure the total power consumption of all connected appliances does not exceed the inverter's continuous power rating (2600W).
3. **USB Charging:** Connect your USB-powered devices to the USB ports for charging.
4. **Monitoring:** Periodically check the battery voltage display to ensure the battery level is adequate. If the voltage drops too low, the inverter's low voltage protection will activate, shutting down the unit to prevent battery damage.
5. **Power Off:** When finished, first turn off all connected AC appliances, then switch the inverter's power button to the "OFF" position.

8. Troubleshooting

Problem	Possible Cause	Solution
No AC output, inverter off	Low battery voltage, overload, overheating, short circuit, reverse polarity (blown fuse).	Charge battery, reduce load, allow inverter to cool, check for short circuits, check/replace fuse.
Low AC output voltage	Low battery voltage, poor battery connections.	Charge battery, tighten battery connections.
Inverter shuts down frequently	Overload, overheating, low battery voltage.	Reduce load, ensure proper ventilation, charge battery.
Fan not operating	Inverter not hot enough to trigger fan, fan malfunction.	This is normal if the inverter is cool. If inverter is hot and fan is off, contact support.

If troubleshooting steps do not resolve the issue, please contact customer support.

9. Specifications

Model	FORYON 3000W Pure Sine Wave Inverter
Input Voltage	DC 12V (Operating Range: 9.5V - 15V)
Output Voltage	AC 220V (Operating Range: 210V - 240V)
Output Waveform	Pure Sine Wave
Output Frequency	50Hz
Continuous Power	2600W
Peak Power	3000W
USB Output	5V / 4.8A (Total)
Protection Features	Over voltage, Low voltage, Overload, Short circuit, Over heat, Polarity reverse (fuse)
Dimensions (L x W x H)	260mm x 112mm x 58mm (approx.)
Weight	300 Grams / 10.6 ounces
Housing Material	Aluminum Alloy

10. Maintenance

Regular maintenance ensures optimal performance and longevity of your inverter:

- **Cleaning:** Keep the inverter clean and free of dust. Use a dry cloth to wipe the exterior. Do not use liquid cleaners.
- **Ventilation:** Periodically check that the cooling fan and air vents are not obstructed.
- **Connections:** Ensure battery cables and AC appliance plugs remain securely connected.

- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.

11. Warranty and Support

FORYON products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please contact your retailer or the manufacturer directly. Please have your product model and purchase date available when contacting support.
For further assistance, please visit the official FORYON website or contact their customer service department.

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