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> Vechline SoPure Pure Sinus Inverter 2000W - Instruction Manual

VECHLINE 15939437 (Onda Pura 2000 W)

Vechline SoPure Pure Sinus Inverter 2000W

Model: 15939437 (Onda Pura 2000 W)
Instruction Manual

1. IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety instructions before installing or operating the Vechline SoPure Pure Sinus Inverter. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- **Electrical Safety:** Always disconnect power before making any electrical connections. Ensure all wiring is correctly sized and properly insulated. Only qualified personnel should perform electrical installations.
- **Ventilation:** The inverter generates heat during operation. Ensure adequate ventilation around the unit to prevent overheating. Do not block ventilation openings.
- **Environment:** Install the inverter in a dry, cool, and well-ventilated area, away from direct sunlight, heat sources, flammable materials, and corrosive substances. Avoid areas with excessive dust or moisture.
- **Grounding:** The inverter must be properly grounded. Connect the grounding terminal to a suitable earth ground.
- **Battery Safety:** Work with batteries can be hazardous. Wear eye protection and gloves. Ensure the battery is securely mounted and properly fused. Do not short-circuit battery terminals.
- **Overload Protection:** Do not exceed the inverter's rated output power. Overloading can damage the inverter and connected appliances.
- **Children and Pets:** Keep the inverter out of reach of children and pets.

2. PRODUCT OVERVIEW

The Vechline SoPure Pure Sinus Inverter 2000W converts 12V DC battery power into 230V AC pure sine wave electricity, suitable for powering sensitive electronic devices and appliances. It features a robust design, an LCD display, and a remote control for convenient operation.



Figure 2.1: Vechline SoPure Pure Sinus Inverter 2000W. This image shows the main unit of the inverter, highlighting its compact black and orange casing with ventilation fins, power output sockets, and input terminals.

Key Components:

- **DC Input Terminals:** For connecting to a 12V DC battery bank (positive and negative).
- **AC Output Sockets:** Standard 230V AC outlets for connecting appliances.
- **USB Output:** 5V, 2100mA USB port for charging small electronic devices.
- **Remote Control Port:** For connecting the included wired remote control.
- **LCD Display:** Provides real-time information on battery level, power consumption, and operational status.
- **Cooling Fans:** Integrated fans for thermal management.
- **Grounding Terminal:** For safety grounding.



Figure 2.2: Remote Control Display. This image displays the remote control unit with indicators for battery level (12V/LEVEL) and power consumption (CONSOMMATION/POWER CONSUMPTION), along with ON/OFF buttons and status lights (Green=OK, Flashing=Problem).

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	Onda Pura 2000 W
Model Number	15939437
Input Voltage	12 Volt DC
Output Voltage	230 Volt AC (Pure Sine Wave)
Continuous Output Power	2000 Watt
Frequency	50 Hz
Efficiency	High
Display Type	LCD
USB Output	5 Volt, 2100 mA
Dimensions (L x W x H)	38 x 22 x 0.9 cm
Weight	7 Kilograms
Included Components	Remote control, French plug, USB output 5 volt, 2100 mA

4. INSTALLATION & SETUP

4.1 Mounting Location

Choose a mounting location that is:

- Dry and protected from water splashes or rain.
- Cool and well-ventilated, allowing for proper airflow around the inverter.
- Secure and stable, capable of supporting the inverter's weight.
- Away from direct sunlight, heat sources, and flammable materials.

Mount the inverter horizontally or vertically using appropriate fasteners. Ensure at least 10-15 cm of clear space around all sides for ventilation.

4.2 DC Input Wiring

WARNING: Before making any connections, ensure the inverter is OFF and the battery is disconnected or its positive terminal is isolated.

1. Connect the *negative* (-) cable from the inverter's DC input terminal to the negative terminal of your 12V battery bank.
2. Connect the *positive* (+) cable from the inverter's DC input terminal to the positive terminal of your 12V battery bank. It is highly recommended to install an appropriate fuse (not included) in the positive line, close to the battery.
3. Ensure all connections are tight and secure to prevent loose connections, which can cause overheating and damage.

4.3 Grounding

Connect the grounding terminal on the inverter's chassis to a reliable earth ground. This is crucial for safety and to prevent electrical shock.

4.4 Connecting AC Loads

Once the DC input and grounding are complete, you can plug your 230V AC appliances into the inverter's output sockets. Ensure the total wattage of all connected appliances does not exceed the inverter's 2000W continuous output rating.

4.5 Remote Control Connection

Plug the remote control cable into the designated remote control port on the inverter. The remote allows for convenient ON/OFF control and monitoring from a distance.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To turn the inverter ON, press the "ON" button on the remote control or the main unit. The LCD display will illuminate, and the status indicator will turn green.
- To turn the inverter OFF, press the "OFF" button on the remote control or the main unit. The display will turn off, and the inverter will cease power output.

5.2 Understanding the LCD Display and Indicators

The LCD display and indicators on the remote control (and potentially the main unit) provide vital information:

- **Battery 12V/Level:** Shows the approximate charge level of your 12V battery bank (e.g., 100%, 75%, 50%, 25%).
- **Consumption/Power Consumption:** Indicates the current power draw of connected AC appliances.
- **Status Indicator (Green):** A steady green light indicates normal operation.

- **Status Indicator (Flashing/Problem):** A flashing light or specific error codes on the LCD (if applicable) indicate a problem, such as overload, low voltage, high voltage, or overheating. Refer to the Troubleshooting section.

5.3 USB Output

The 5V, 2100mA USB port can be used to charge compatible USB-powered devices. This output is active when the inverter is powered on.

6. 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. Do not use liquid cleaners or solvents. Ensure ventilation openings are free from dust and debris.
- **Connection Check:** Regularly inspect all DC and AC connections for tightness. Loose connections can cause voltage drops, overheating, and potential damage.
- **Battery Maintenance:** Follow the maintenance guidelines for your specific 12V battery bank. Ensure batteries are kept charged and in good condition, as battery health directly impacts inverter performance.
- **Storage:** If storing the inverter for an extended period, ensure it is disconnected from the battery and stored in a cool, dry place.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
Inverter does not turn on.	No DC input power; Loose battery connections; Blown fuse in DC line; Low battery voltage.	Check battery connections and voltage. Ensure battery is charged. Check for blown fuses.
No AC output.	Inverter in fault mode (overload, low/high voltage, overheating); Connected appliance is faulty.	Check LCD display for error codes. Reduce load. Allow inverter to cool down. Check appliance.
Inverter shuts down frequently.	Overload; Low battery voltage; Poor ventilation/overheating.	Reduce total load. Recharge battery. Ensure adequate ventilation.
Flashing status indicator.	Indicates a problem (e.g., low battery, overload, high temperature).	Consult the LCD display for specific error messages. Address the indicated issue.

8. WARRANTY AND SUPPORT

This Vechline SoPure Pure Sinus Inverter is covered by a manufacturer's warranty against defects in materials and workmanship. The duration and terms of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For technical support, warranty service, or further inquiries, please contact your retailer or the official Vechline distributor in your region. Refer to the product packaging or the retailer's website for specific contact information.

