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LANDERPOW LANDERPOW-1200W-PSW

LANDERPOW 1200 Watt Pure Sine Wave Inverter

Model: LANDERPOW-1200W-PSW

User Instruction Manual

1. Introduction

This manual provides detailed instructions for the safe and efficient operation of your LANDERPOW 1200 Watt Pure Sine Wave Inverter. This device converts 12V DC battery power into 120V AC household power, suitable for a wide range of electronics and appliances. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in injury, damage to the inverter, or damage to connected devices.

- Ensure proper ventilation around the inverter to prevent overheating.
- Do not expose the inverter to water, rain, or excessive moisture.
- Do not operate the inverter near flammable materials or in environments with explosive gases.
- Connect the inverter only to a 12V DC power source.
- Always connect the ground cable before connecting battery cables.
- Ensure all connections are tight and secure to prevent arcing and overheating.
- Do not open the inverter casing. There are no user-serviceable parts inside.
- Keep out of reach of children.

3. Package Contents

Verify that all items are present in your package:

- 1x LANDERPOW 1200W Pure Sine Wave Inverter
- 2x 7AWG Jumper Battery Cables (2 FT)
- 1x Ground Cable (1.65 FT)
- 1x Remote Controller (15 FT)
- 1x User Manual (this document)



Image 3.1: The LANDERPOW 1200W Pure Sine Wave Inverter with its remote control, battery cables, and ground cable.

4. Product Overview

The LANDERPOW 1200W Pure Sine Wave Inverter is designed to provide reliable AC power from a 12V DC source. It features multiple output ports and advanced safety protections.

4.1 Key Features

- **1200W Continuous Power:** Provides 1200 watts of continuous pure sine wave AC power.
- **2400W Peak Surge Power:** Capable of handling momentary power surges up to 2400 watts for starting demanding appliances.
- **Pure Sine Wave Output:** Delivers clean, stable power suitable for sensitive electronics, preventing hum or flicker.
- **Multiple Output Ports:** Equipped with 3 AC outlets, 1x 5V/3.1A USB-A port, and 1x 30W USB-C PD port.
- **Wired Remote Control:** Includes a 15ft wired remote with an LED screen for real-time monitoring of battery levels, output, and error codes.

- **High Efficiency:** Over 91% conversion efficiency minimizes battery energy waste.
- **Comprehensive Safety Protections:** Built-in safeguards against undervoltage, overvoltage, overload, overheating, short circuit, and reverse connection.
- **Durable Construction:** Rugged, heat-dissipating full metal shell designed for long-term use and resistance to environmental factors.

4.2 Inverter Components



Image 4.1: Front and back panel layout of the inverter, highlighting AC outlets, USB ports, DC input terminals, and the remote control port.

4.3 Remote Control Features

The included remote control allows for convenient monitoring and operation from a distance.



Image 4.2: Detailed view of the remote control's LED display, indicating various operational parameters and potential error conditions.

- **DC Input Voltage:** Displays the current voltage from your 12V battery.
- **AC Output Wattage:** Shows the real-time power consumption of connected AC devices.
- **Battery Remaining Capacity:** Visual indicator of the battery charge level.
- **Frequency:** Indicates the output AC frequency (60Hz).
- **Error Indicators:** Alerts for conditions such as voltage too high/low, overheating, overload, and fan operation.
- **Power Button:** One-touch shutdown/restart functionality.

5. Setup

Follow these steps for safe and correct installation of your inverter.

5.1 Choosing a Location

- Install the inverter in a dry, well-ventilated area, away from direct sunlight and heat sources.
- Ensure there is at least 6 inches of clear space around the inverter for proper airflow.

- Mount the inverter securely on a flat, stable surface.

5.2 Wiring Instructions

Before making any connections, ensure the inverter's power switch is in the OFF position.

1. **Grounding:** Connect the included ground cable to the inverter's grounding terminal and then to a proper earth ground point (e.g., vehicle chassis, ground rod).
2. **DC Input Connection:**
    - Connect the red battery cable to the inverter's positive (+) DC input terminal.
    - Connect the black battery cable to the inverter's negative (-) DC input terminal.
    - Connect the other end of the red battery cable to the positive (+) terminal of your 12V battery.
    - Connect the other end of the black battery cable to the negative (-) terminal of your 12V battery.
    - Ensure all connections are tight and secure. The provided 7AWG cables are designed for optimal performance and safety.
3. **Remote Control Connection:** Plug the 15ft remote control cable into the designated remote port on the inverter.
4. **AC Output Connection:** Once the inverter is powered on, you can plug your AC appliances into the AC outlets.



Image 5.1: The inverter connected to a 12V battery, demonstrating its compatibility with various battery chemistries like LiFePO4, GEL, SLA, FLD, and AGM.



Image 5.2: Example setup illustrating the inverter's use in RV and home backup power systems, connecting to solar panels, batteries, and various loads.

6. Operating Instructions

6.1 Powering On/Off

1. After completing all connections, switch the main power button on the inverter to the ON position.
2. The remote control's LED screen will illuminate, displaying current status.
3. To turn off, switch the main power button on the inverter to the OFF position, or use the power button on the remote control.

6.2 Connecting Appliances

- Plug your AC appliances into the 3 AC outlets on the inverter.
- For charging USB devices, use the 5V/3.1A USB-A port or the 30W USB-C PD port.
- Ensure the total continuous wattage of all connected AC appliances does not exceed 1200W.
- For appliances with high startup current (e.g., motors, compressors), the inverter can handle up to 2400W surge power for a short duration.



Image 6.1: The inverter providing power to a microwave and a portable cooler, showcasing its ability to handle both continuous and surge loads.

6.3 Monitoring with Remote Control

The remote control provides real-time feedback on the inverter's status:

- Regularly check the **DC Input Voltage** to ensure your battery is adequately charged.
- Monitor the **AC Output Wattage** to stay within the inverter's continuous power limit.
- Observe the **Battery Remaining Capacity** indicator to anticipate when recharging is needed.
- If any error indicators appear, refer to the Troubleshooting section.

7. Maintenance

Proper maintenance ensures the longevity and optimal performance of your inverter.

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Ensure ventilation openings are free from dust and debris. Do not use liquid cleaners.
- **Connections:** Regularly check all electrical connections (battery cables, ground cable) to ensure they remain tight and free from corrosion.

- **Ventilation:** Always ensure the inverter has adequate ventilation. Do not block the cooling fans or air vents. The intelligent cooling fans will activate automatically when needed.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.



Image 7.1: Illustration of the inverter's intelligent cooling system and fan noise level, emphasizing the importance of clear airflow.

8. Troubleshooting

This section addresses common issues you might encounter with your inverter.

8.1 Common Issues and Solutions

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Inverter does not turn on	Loose battery connections Low battery voltage Blown fuse (internal)	Check and tighten all battery cable connections. Recharge or replace the 12V battery. Contact customer support; do not attempt to replace internal fuses.
No AC output	Inverter in protection mode (overload, overheat, low voltage) Appliance fault	Check remote display for error codes. Reduce load, allow cooling, or recharge battery. Disconnect and test appliance separately.
Overload warning on remote	Connected appliances exceed 1200W continuous power.	Disconnect some appliances to reduce the load. Restart the inverter.
Overheat warning on remote	Poor ventilation Excessive ambient temperature Prolonged high load	Ensure clear space around the inverter. Move to a cooler environment. Reduce load and allow the inverter to cool down.
Low voltage warning on remote	Battery voltage is too low.	Recharge the 12V battery immediately.
Fans not running	Normal operation at low load Fan malfunction	Fans are temperature-controlled and will only run when needed. If the inverter is hot and fans are not running, contact support.

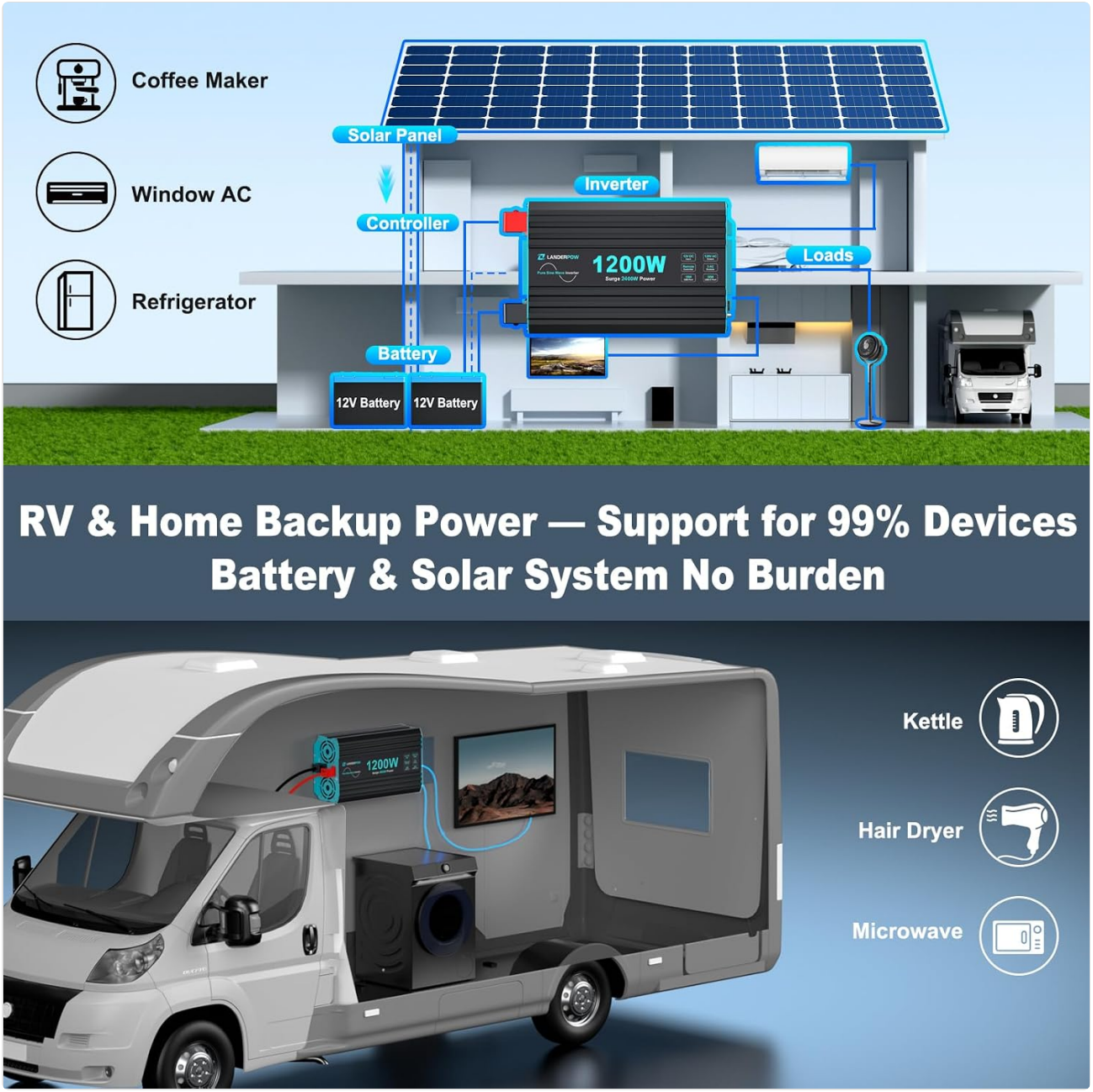

Image 8.1: Overview of the inverter's built-in safety protection system, designed to prevent damage from various electrical faults.

9. Specifications

Feature	Specification
Model Name	LANDERPOW-1200W-PSW
Continuous Power	1200 Watts
Surge Power	2400 Watts (for 2 seconds)
Input Voltage	12V DC
Output Voltage	120V AC
Output Waveform	Pure Sine Wave
Efficiency	>91%
AC Outlets	3

Feature	Specification
USB-A Output	5V/3.1A
USB-C PD Output	30W
Remote Control Cable Length	15 FT
Battery Cable Gauge	7AWG
Product Dimensions	8.54 x 5.75 x 3.15 inches
Item Weight	3.63 pounds
Manufacturer	LANDERPOW

10. Warranty and Support

LANDERPOW stands behind the quality of its products.

- **Warranty Coverage:** Your LANDERPOW 1200 Watt Inverter comes with an Extra Long 3-Year Total Coverage, which includes a 1-Year No-hassle Replacement and 2-Year Extended Support.
- **Customer Support:** If you have any questions, concerns, or require assistance, please contact our customer support team. We aim to respond to all inquiries within 12 hours.

For support, please refer to the contact information provided with your purchase or visit the official LANDERPOW website.

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