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> [AMPACE Andes 1500 Power Station with 100W Solar Panel User Manual](#)

AMPACE Andes 1500+100W Solar Panel

AMPACE Andes 1500 Power Station User Manual

Model: Andes 1500+100W Solar Panel

1. INTRODUCTION

The AMPACE Andes 1500 Power Station with 100W Solar Panel is a portable energy solution designed for various applications, including home backup, outdoor camping, and off-grid power needs. It features a 1462Wh LiFePO4 battery, 2400W AC output, and can be fully recharged rapidly. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your power station and solar panel.

2. SAFETY INSTRUCTIONS

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

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire, water, and extreme temperatures.
- Ensure proper ventilation during use to prevent overheating.
- Do not block the ventilation openings.
- Use only approved accessories and charging cables.
- Keep out of reach of children and pets.
- Dispose of the product according to local regulations.

3. WHAT'S IN THE BOX

Verify that all items are present upon unpacking:

- AMPACE Andes 1500 Portable Power Station
- 1x AMPACE 100W Solar Panel
- AC Charging Cable
- Car Charging Cable
- 5521 to XT60 Solar Charging Cable
- Connector User Manual
- Welcome Guide

4. PRODUCT OVERVIEW

The Andes 1500 Power Station and its accompanying 100W solar panel are designed for robust and reliable power delivery.



Figure 4.1: AMPACE Andes 1500 Power Station and 100W Solar Panel. The power station features multiple output ports and a clear display, while the solar panel is foldable for portability.

The power station is equipped with a 1462Wh LiFePO₄ battery, offering a long lifespan of over 6,000 cycles, equivalent to more than 10 years of daily use. It supports up to 2400W AC output and features A-Boost technology for rapid charging.

55 MIN FAST CHARGING

Activate A-Boost Charging in the APP

A-BOOST



1462Wh
Capacity

13
Output Ports

2400W
AC Output

Figure 4.2: The Andes 1500 can achieve a full charge in just 55 minutes using A-Boost technology, significantly faster than conventional models.

The included 100W solar panel is foldable, lightweight, and designed for durability with an IP67 rating, making it water-resistant and dustproof. It can capture up to 23% more energy, providing an efficient green charging solution.

15-YEAR BATTERY LIFE

6000+ Full Charge Cycles \geq 80% Capacity



2024 Pro Tool
Innovation Award



TÜVRheinland Quality
Certification



Figure 4.3: The advanced EV-grade LFP battery ensures an exceptional lifespan of over 6,000 cycles, providing reliable performance for over a decade.

The power station also features a <20ms auto-switch function for uninterrupted power during outages and customizable ambient lighting modes controllable via the Ampace App.

<20MS AUTO SWITCH

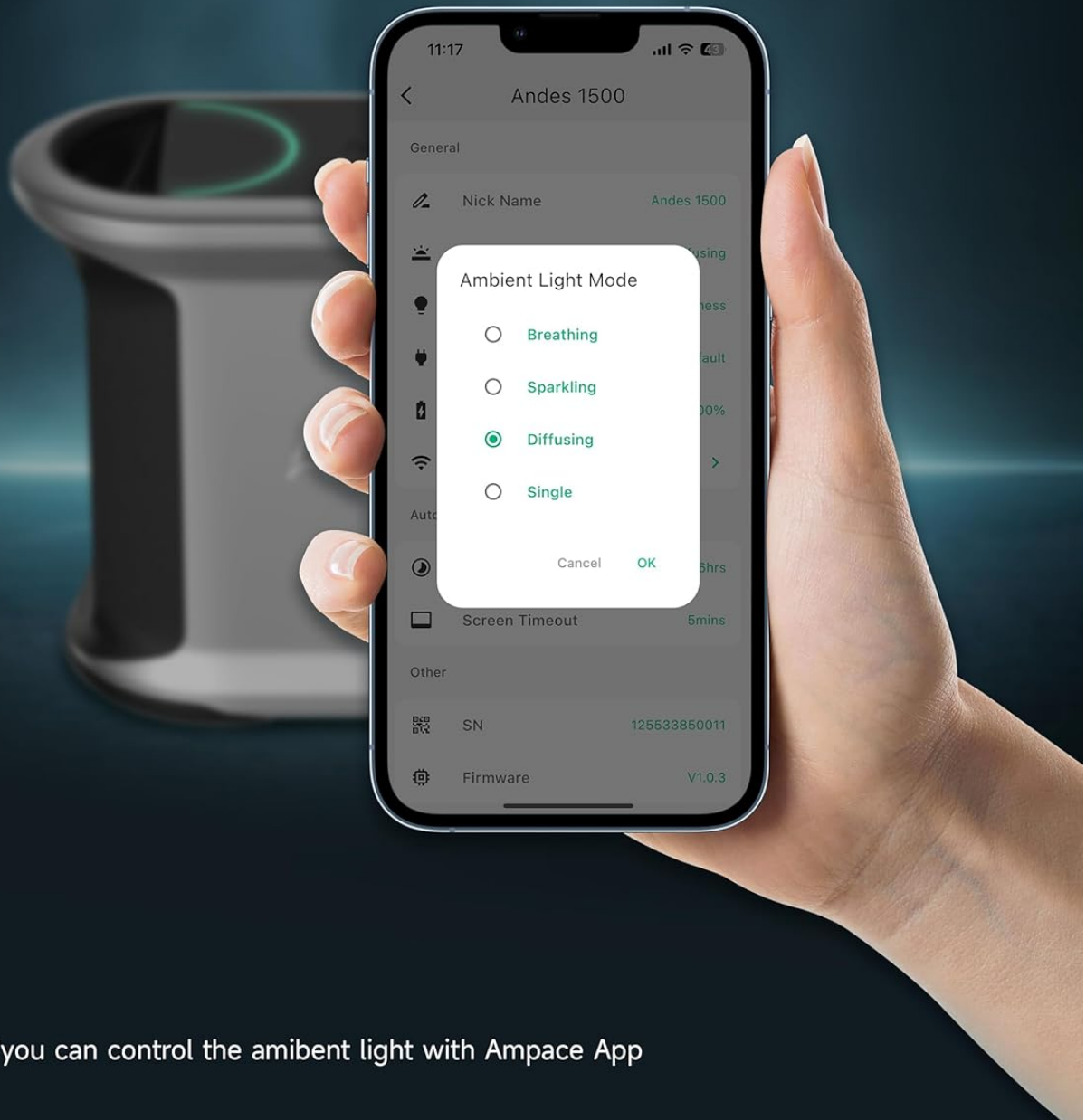
Keep Your Important Devices Running



Figure 4.4: The <20ms auto-switch ensures that your important devices remain powered during sudden outages, providing instant peace of mind.

COLORFUL AMBIENT LIGHT

FOUR mode: Breathing, Sparkling, Diffusing, Single



*you can control the ambient light with Ampace App

Figure 4.5: Control the power station's colorful ambient light with four modes (Breathing, Sparkling, Diffusing, Single) using the Ampace App.

5. SETUP

5.1 Initial Charging

Before first use, fully charge the power station using the provided AC charging cable. Plug the AC cable into a standard wall outlet and connect it to the AC input port on the power station. The display will indicate charging status.

5.2 Connecting the Solar Panel

To charge the power station using the solar panel:

1. Unfold the 100W solar panel and place it in direct sunlight.
2. Locate the MC4 ports behind your solar panel.
3. Use an extension cable (if needed) to connect the MC4 ports to the MC4 to XT60 solar charging converter.
4. Connect the solar charging cable converter to the XT60 port on your power station.

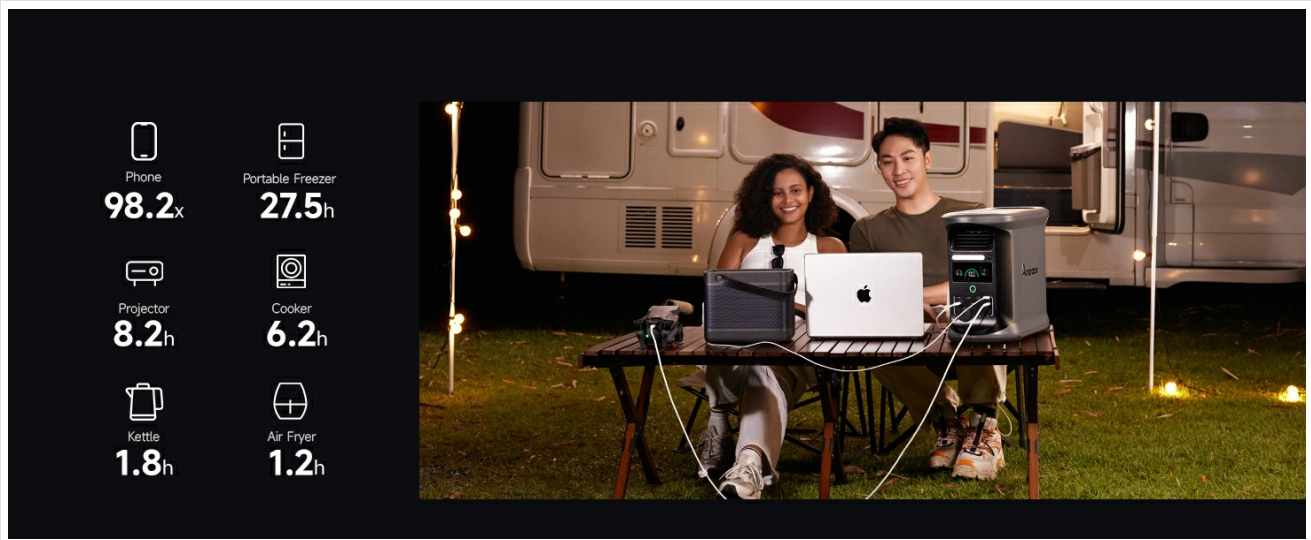


Figure 5.1: Diagram illustrating the connection process for the solar panel to the power station.

Adjust the solar panel's angle for optimal sunlight exposure. The panel supports 4 angle adjustments: 30°, 40°, 50°, or 80°.



Figure 5.2: The solar panel can be adjusted to four different angles (30°, 40°, 50°, 80°) to maximize solar energy capture.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

Press and hold the main power button to turn the unit on or off. The display will illuminate, showing battery level and output status.

6.2 Using AC/DC/USB Outputs

To activate specific output ports (AC, DC, USB), press the corresponding button next to the port section. The

indicator light will turn on, signifying that the ports are active and ready for use.

6.3 A-Boost Fast Charging

For the fastest charging experience, activate A-Boost charging through the Ampace mobile application. This feature allows the power station to reach full capacity in approximately 55 minutes.

6.4 Emergency Power Supply

The Andes 1500 features an emergency power supply function with a <20ms auto-switch. When connected to a wall outlet and devices are plugged into the power station, it can automatically switch to battery power during an outage, ensuring continuous operation for critical devices.



Figure 6.1: The power station provides an instant emergency power supply, keeping essential devices running during power interruptions.

6.5 Quiet Operation

The Andes 1500 is designed for quiet operation, especially in sleep mode, where noise levels are below 30dB. This makes it suitable for indoor use and overnight charging without disturbance.

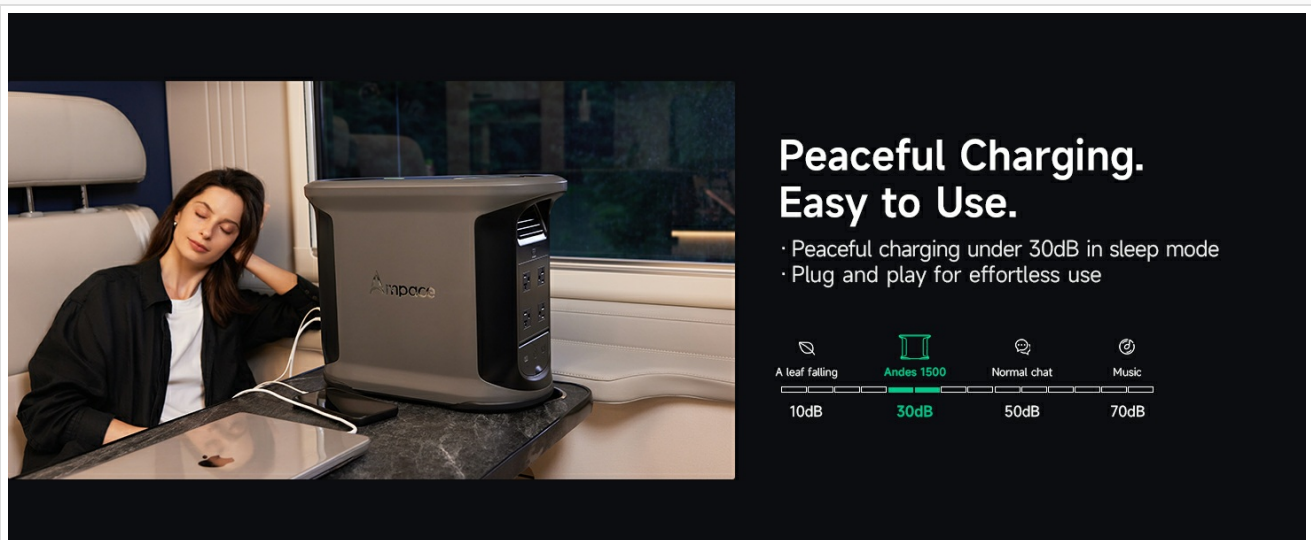


Figure 6.2: Enjoy peaceful charging with noise levels under 30dB in sleep mode, ideal for quiet environments.

7. MAINTENANCE

7.1 Battery Care

The Andes 1500 uses a durable LiFePO4 battery. To maximize its lifespan:

- Avoid fully discharging the battery frequently.
- Store the unit in a cool, dry place, ideally at 50% charge, if not used for extended periods.
- Recharge the unit every 3-6 months if stored, to maintain battery health.

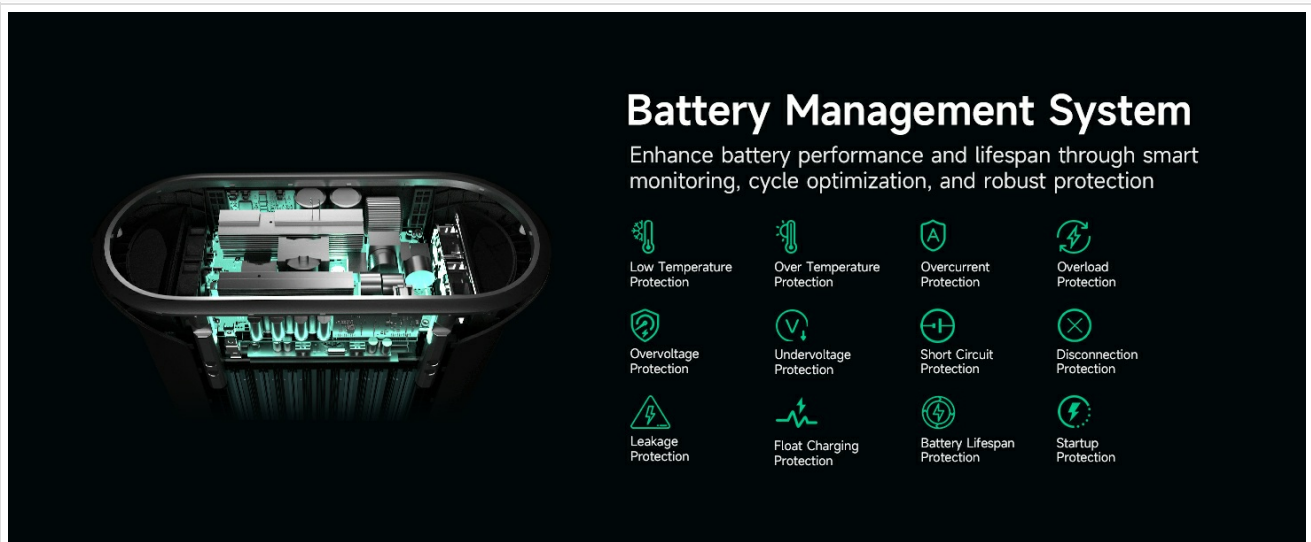


Figure 7.1: The integrated Battery Management System (BMS) enhances battery performance and lifespan through smart monitoring and robust protection features.

7.2 Cleaning

Use a soft, dry cloth to clean the exterior of the power station and solar panel. Do not use abrasive cleaners or immerse the unit in water.

8. TROUBLESHOOTING

If you encounter issues with your AMPACE Andes 1500, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit not turning on	Battery depleted; Power button not pressed correctly.	Charge the unit; Press and hold the power button for 3 seconds.
AC output not working	AC output not activated; Overload protection triggered.	Press the AC output button; Reduce connected load, then restart AC output.
Solar charging slow/not working	Insufficient sunlight; Incorrect panel angle; Loose connection.	Ensure direct sunlight; Adjust panel angle; Check all cable connections.
Display not working	Unit off; Display timeout.	Turn on the unit; Press any button to wake the display.

If the problem persists, please contact customer support.

9. SPECIFICATIONS

Feature	Detail
Brand	AMPACE

Feature	Detail
Model Name	Andes 1500+100W Solar Panel
Battery Type	LiFePO4 (LFP)
Battery Capacity	1462Wh
AC Output Wattage	2400W (Pure Sine Wave)
Peak Wattage	Up to 3600W
Solar Input	Up to 600W
Full Charge Time (A-Boost)	55 minutes
Lifespan	6,000+ cycles to >80% capacity (10+ years)
Item Weight	36.8 Pounds
Product Dimensions	17.2"L x 7.7"W x 13.2"H
Solar Panel Efficiency	23% Energy Conversion Rate
Solar Panel IP Rating	IP67 (Water-resistant and Dustproof)
Total Power Outlets	13

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The AMPACE Andes 1500 Power Station comes with a 5-year warranty, ensuring dependable performance and peace of mind. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact AMPACE customer service. Refer to the welcome guide included in your package for specific contact details or visit the official AMPACE website.

You can also visit the [AMPACE Store on Amazon](#) for more information and support resources.