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ABOK Ark2000

ABOK Ark2000 Solar Generator User Manual

Model: Ark2000 | Brand: ABOK

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your ABOK Ark2000 Solar Generator. Please read it thoroughly before using the product to ensure proper functionality and longevity. The ABOK Ark2000 is a portable power station designed to provide reliable power for various applications, featuring a 1536Wh LiFePO4 battery and a 2000W AC output.



Image 1.1: ABOK Ark2000 Solar Generator with included 200W Solar Panel. This image displays the main power station unit alongside its foldable solar panel, ready for use in an outdoor setting.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- ABOK Ark2000 Portable Power Station x1
- ABOK PV200 Solar Panel (200W) x1
- AC Charging Cable x1
- XT60 to MC4 Cable x1
- XT60 to Cigarette Lighter Cable x1
- Ark2000 User Manual x1



Image 2.1: Visual representation of the ABOK Ark2000 Portable Power Station and its included accessories, such as cables and the user manual.

3. PRODUCT OVERVIEW

3.1. Main Unit Features

The Ark2000 features a robust design with multiple input and output ports, an intuitive LCD display, and integrated cooling systems.

- **Capacity:** 1536Wh LiFePO4 battery, expandable up to 4608Wh with additional batteries.
- **Output:** 2000W AC (2200W peak) capable of powering 99% of household appliances.
- **Battery Management System (BMS):** Ensures safe and efficient operation with comprehensive protection.
- **Cooling System:** Integrated fans prevent overheating during operation.
- **Dimensions:** 15.91"L x 8.58"W x 11.61"H.



Image 3.1: Detailed view of the ABOK Ark2000 Power Station's front and rear panels, highlighting various ports and controls.

3.2. Output Ports

- 3 x AC Outputs (Standard US outlets)
- 2 x USB-A (QC3.0)

- 1 x USB-C (PD100W)
- 1 x USB-C (PD20W)
- 1 x Car Cigarette Lighter Socket (12V/10A)

3.3. Input Ports

- AC Input
- XT60 Input (for Solar Panel and Car Charging)
- Extra Battery Ports (for expansion batteries, sold separately)

3.4. Display and Controls

The clear LCD screen displays real-time information including battery status, input/output wattage, and remaining runtime. Control buttons are provided for AC, DC, USB outputs, and the integrated LED light.

3.5. 200W Solar Panel (PV200)

The included 200W foldable solar panel is designed for portability and efficient solar energy conversion.

- **Design:** Foldable and portable with handles for easy transport.
- **Efficiency:** 23% high-efficiency solar conversion.
- **Durability:** IP68 waterproof rating, protective ETFE film.
- **Features:** 45° stand design for optimal sun exposure, ergonomic soft grip, carabiner loop design for mounting.

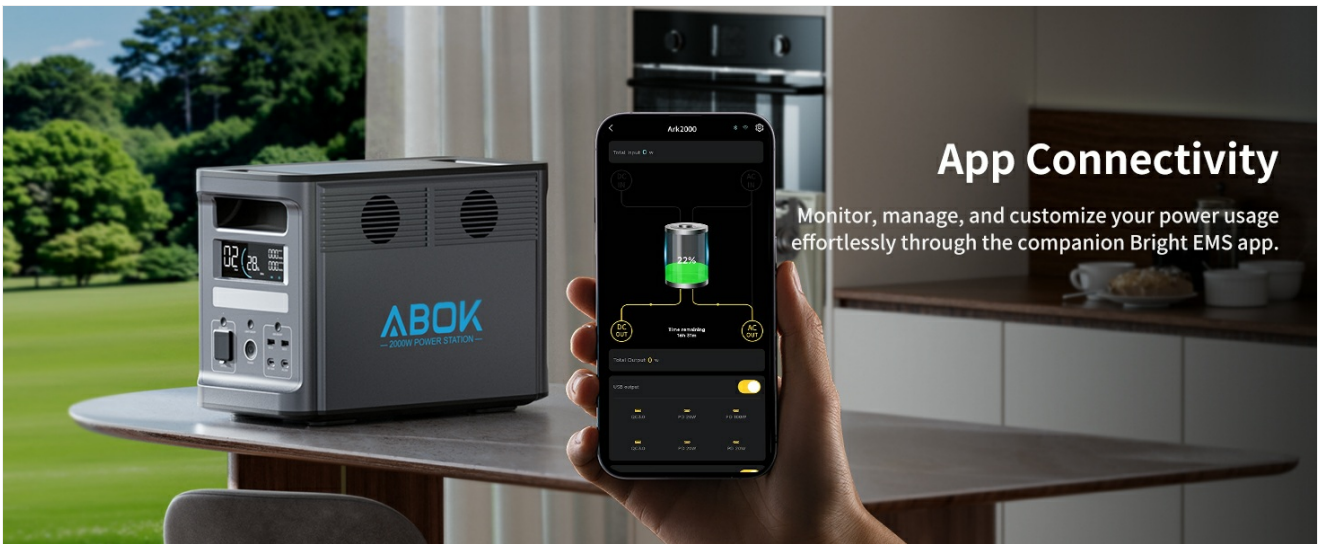


Image 3.2: Illustration of the ABOK 200W Foldable Solar Panel's key features, including its portability, efficiency, and durable construction.

4. SETUP

4.1. Initial Charging

Before first use, fully charge the Ark2000 using the AC charging cable. Connect the AC charging cable to the AC input port on the power station and then to a standard wall outlet. The LCD screen will indicate charging progress. A full charge via AC takes approximately 1.3 hours.



App Connectivity

Monitor, manage, and customize your power usage effortlessly through the companion Bright EMS app.

Image 4.1: The ABOK Ark2000 Power Station being charged via an AC wall outlet, demonstrating its fast charging capability.

4.2. Solar Panel Connection

To charge using the solar panel:

1. Unfold the ABOK PV200 Solar Panel and position it in direct sunlight, adjusting the 45° stand for optimal angle.
2. Connect the XT60 to MC4 cable to the solar panel's output.
3. Plug the XT60 connector into the XT60 input port on the Ark2000 Power Station.
4. The LCD screen will display the input wattage from the solar panel.



Cook Anywhere Feast Everywhere

Unlock a full mobile kitchen with 2000W pure sine wave AC—enjoy hot meals in the heart of nature, without compromise.



Electric Grill
(1200W)

1.2 Hrs



Electric Kettle
(1500W)

1 Hrs



Slow Cooker
(300W)

5 Hrs

Image 4.2: The ABOK Ark2000 Power Station connected to a solar panel for charging, illustrating the outdoor setup.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

Press and hold the main power button on the front panel to turn the unit ON or OFF. The LCD screen will illuminate upon activation.

5.2. Using AC Outputs

To use the AC outlets, press the 'AC ON/OFF' button located near the AC input port. The indicator light will turn on, signifying that the AC outlets are active. Plug your devices into the available AC ports.

5.3. Using DC and USB Outputs

Press the 'DC ON/OFF' button for the 12V/10A cigarette lighter socket and the 'USB ON/OFF' button for the USB-A and USB-C ports. Connect your devices to the appropriate ports.

5.4. LED Light Function

Press the 'LIGHT ON/OFF' button to activate the integrated LED light. Multiple modes (steady, flashing, SOS) can be cycled through by pressing the button repeatedly.

5.5. Uninterruptible Power Supply (UPS)

When the Ark2000 is connected to an AC wall outlet and devices are plugged into its AC output, it functions as a UPS. In the event of a power outage, the unit will automatically switch to battery power within 0.01 seconds, ensuring continuous operation for connected devices.



Image 5.1: Visual demonstration of the ABOK Ark2000's Uninterruptible Power Supply (UPS) feature, showing seamless power transition during an outage.

5.6. App Control

Download the official ABOK app to monitor battery status, customize charging speeds, and control outputs remotely via Bluetooth or Wi-Fi.



Image 5.2: Screenshot of the ABOK app interface, demonstrating remote control and monitoring capabilities for the Ark2000 Power Station.

6. CHARGING METHODS

The Ark2000 offers versatile charging options to suit various situations.

6.1. AC Wall Charging

Connect the AC charging cable to a standard wall outlet. The power station can charge from 0% to 100% in approximately 1.3 hours (Max. 1500W input).

6.2. Solar Charging

Utilize the included 200W solar panel or connect up to 1200W of solar input via the XT60 port. The Ark2000 can fully charge in about 1.6 hours with 1200W solar input. This method is ideal for off-grid power generation.

6.3. Car Charging

Use the XT60 to Cigarette Lighter Cable to charge the power station from your vehicle's 12V outlet (Max. 120W input). This is suitable for charging on the go.

6.4. Combined Charging

For the fastest charging, combine AC and solar input for a maximum of 2700W, achieving 0-100% in approximately 50 minutes.



Image 6.1: Overview of the ABOK Ark2000's fast charging capabilities, including AC, solar, and combined charging methods.

7. MAINTENANCE

7.1. Battery Care

The Ark2000 uses a LiFePO4 battery designed for over 4000 charge cycles, offering a lifespan of up to 15 years. To maximize battery life:

- Avoid extreme temperatures.
- Store the unit in a cool, dry place.
- Recharge the unit to 80% every 3-6 months if not in regular use.



Image 7.1: Visual representation of the ABOK Ark2000's LiFePO4 battery technology, emphasizing its long lifespan and safety features.

7.2. Cleaning and Storage

Wipe the unit with a dry, soft cloth. Do not use abrasive cleaners or immerse the unit in water. Store the unit away from direct sunlight and moisture.

8. TROUBLESHOOTING

If you encounter issues with your Ark2000, refer to the following common solutions:

- **Unit not turning on:** Ensure the battery is charged. If not, connect to an AC outlet for charging.
- **No output from ports:** Verify that the specific output section (AC, DC, USB) is turned ON using its respective button. Check for overload protection activation.
- **Slow charging:** Ensure all charging cables are securely connected. For solar charging, confirm the panel is in direct sunlight and properly angled.

- **Overload Protection:** If an overload occurs, the unit will automatically shut down. Disconnect the overloaded device, wait a few minutes, and then restart the unit.

9. SPECIFICATIONS

| Feature | Detail |
|------------------------------|--|
| Model Name | Ark2000 |
| Battery Capacity | 1536Wh (Expandable to 4608Wh) |
| Output Power (AC) | 2000W (2200W Peak) |
| Battery Type | LiFePO4 |
| AC Charging Time (0-100%) | 1.3 Hours (Max. 1500W) |
| Solar Charging Time (0-100%) | 1.6 Hours (Max. 1200W) |
| UPS Switching Time | 0.01 Seconds |
| Product Dimensions | 15.91"L x 8.58"W x 11.61"H |
| Solar Panel (PV200) | 200W, Foldable, IP68, ETFE, 23% Efficiency |

10. WARRANTY AND SUPPORT

The ABOK Ark2000 Solar Generator comes with a **5-year warranty**. For technical support, troubleshooting assistance, or warranty claims, please contact ABOK customer service through their official website or the contact information provided in your purchase documentation.

11. OFFICIAL PRODUCT VIDEOS

11.1. Day in life with the Ark2000

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Video 11.1: This video showcases the ABOK Ark2000 Power Station in various daily scenarios, demonstrating its versatility and ease of use for different power needs.

11.2. Does the Ark2000 have enough power for true offgrid work?

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Video 11.2: This video explores the ABOK Ark2000's capacity and performance for demanding off-grid work environments, highlighting its power delivery capabilities.

11.3. Why Choose Ark2000 1536Wh 2000W Power Station

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Video 11.3: This video details the key advantages and features of the ABOK Ark2000 Power Station, explaining why it is a suitable choice for various power needs.

11.4. Why this power station is the best fit for your workshop

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Video 11.4: This video highlights the specific benefits and applications of the ABOK Ark2000 Power Station for workshop use, showcasing its ability to power tools and equipment.

11.5. See What's Inside: Unboxing the ABOK Ark2000 Power Station

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Video 11.5: This video provides an unboxing experience of the ABOK Ark2000 Power Station, detailing its packaging and included components.

11.6. Ark2000 - Your ultimate work & life companion

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Video 11.6: This video presents the ABOK Ark2000 as a versatile power solution for both professional work and personal lifestyle needs, emphasizing its adaptability.