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## ABOK Ark3600

# ABOK Ark3600 Portable Power Station Instruction Manual

Model: Ark3600 | Brand: ABOK

## 1. INTRODUCTION

The ABOK Ark3600 Portable Power Station is a high-capacity, versatile power solution designed for various applications, including home backup, off-grid living, camping, RV trips, and outdoor activities. Equipped with an EV-Grade LiFePO4 battery, it offers reliable and long-lasting power for a wide range of devices and appliances.

This manual provides essential information for the safe and efficient operation, setup, maintenance, and troubleshooting of your Ark3600 Portable Power Station.

## 2. SETUP

### 2.1 Unboxing and Initial Inspection

Carefully remove all components from the packaging. Verify that all included items are present:

- Ark3600 Portable Power Station
- AC Charging Cable
- Cigarette Lighter Cable
- MC4 to XT90 Cable
- User Manual

Inspect the unit for any visible damage. If any components are missing or damaged, contact customer support immediately.

## 2.2 Initial Charging

Before first use, fully charge the Ark3600. Connect the AC Charging Cable to the power station and then to a wall outlet. The display will indicate charging status. A full AC charge takes approximately 3 hours.

## 2.3 Portability

The Ark3600 features an extendable telescoping handle and durable wheels for easy transport. Simply pull the handle and roll the unit to your desired location.



Image: The ABOK Ark3600 Portable Power Station demonstrating its portable wheel design and extendable handle.

## 3. COMPONENTS AND PORTS

The Ark3600 is equipped with 15 versatile output ports to power a wide array of devices simultaneously. Refer to the diagram below for port identification.

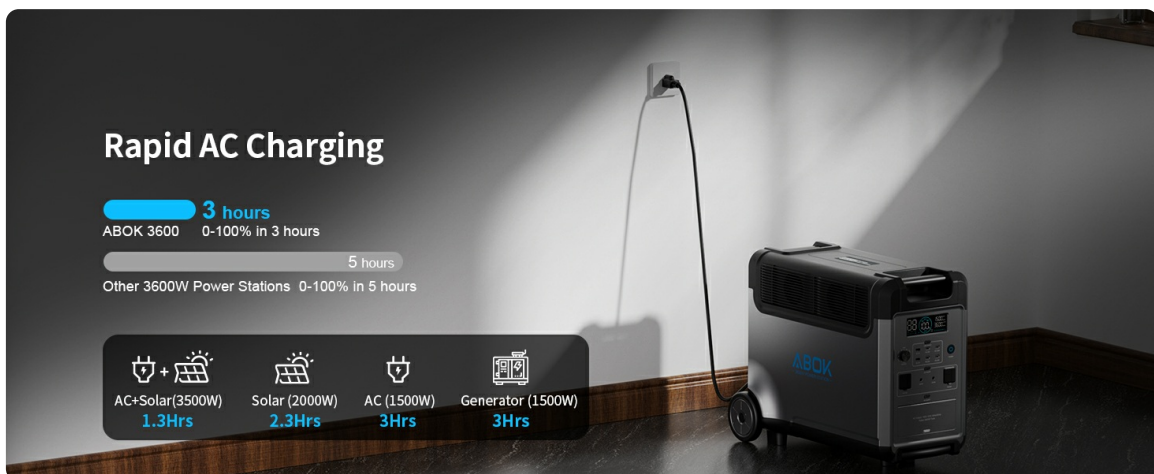


Image: Detailed view of the ABOK Ark3600's front panel, highlighting the various output ports.

### 3.1 Output Ports

- **AC Output:** 1 x AC (30A), 4 x AC (20A) for household appliances.
- **USB-A Output:** 2 x USB-A (QC3.0) for quick charging compatible devices.
- **USB-C Output:** 1 x USB-C (PD 100W), 3 x USB-C (PD 20W) for fast charging laptops, tablets, and smartphones.

- **DC5521 Output:** 2 x DC5521 (12V/3A) for various DC-powered devices.
- **XT60 Output:** 1 x XT60 (12V/25A) for high-power DC devices.
- **Cigarette Lighter Port:** 1 x Cigarette Lighter Port (12V/10A) for car accessories.

## 3.2 Input Ports

- **AC Input:** For charging from a standard wall outlet.
- **PV Input:** For connecting solar panels (MC4 to XT90 cable included).
- **Car Charging Input:** For charging from a vehicle's 12V cigarette lighter port.
- **Parallel Ports:** For connecting extra batteries to expand capacity.

## 3.3 Control Panel

The front panel features a clear LCD display showing battery percentage, input/output wattage, and remaining runtime. Power buttons for AC and DC outputs allow individual control. An adjustable AC input knob (300W-1500W) helps prevent tripping circuit breakers.

# 4. OPERATING INSTRUCTIONS

## 4.1 Powering On/Off

Press and hold the main Power button to turn the unit on or off. The LCD display will illuminate upon activation.

## 4.2 Charging the Power Station

- **AC Charging:** Connect the AC Charging Cable to the AC Input port and a wall outlet. The unit supports up to 1500W AC input.
- **Solar Charging:** Connect compatible solar panels (up to 2000W max input, 12V-160V) to the PV Input port using the MC4 to XT90 cable.
- **Car Charging:** Use the Cigarette Lighter Cable to charge the unit from your vehicle's 12V outlet (120W input).
- **Combined Charging:** For fastest charging, combine AC and PV input. The unit can be fully charged in approximately 1.29 hours with AC + PV combined, or 3 hours with AC charging alone.



Image: The ABOK Ark3600 demonstrating its rapid AC charging capability, showing various charging times.

## 4.3 Powering Devices

- **AC Devices:** Press the AC ON/OFF button to activate the AC outlets. Plug your devices into the appropriate AC ports.
- **DC Devices:** Press the DC ON/OFF button to activate the DC ports. Plug your devices into the USB-A, USB-C, DC5521, XT60, or Cigarette Lighter ports.



Image: The ABOK Ark3600 powering heavy-duty tools, showcasing its 3600W stable power output.

## 4.4 Smart App Control

Download the ABOK app to monitor and control your power station remotely via Bluetooth. The app allows you to check charging status, power consumption, and adjust settings for optimized energy usage.

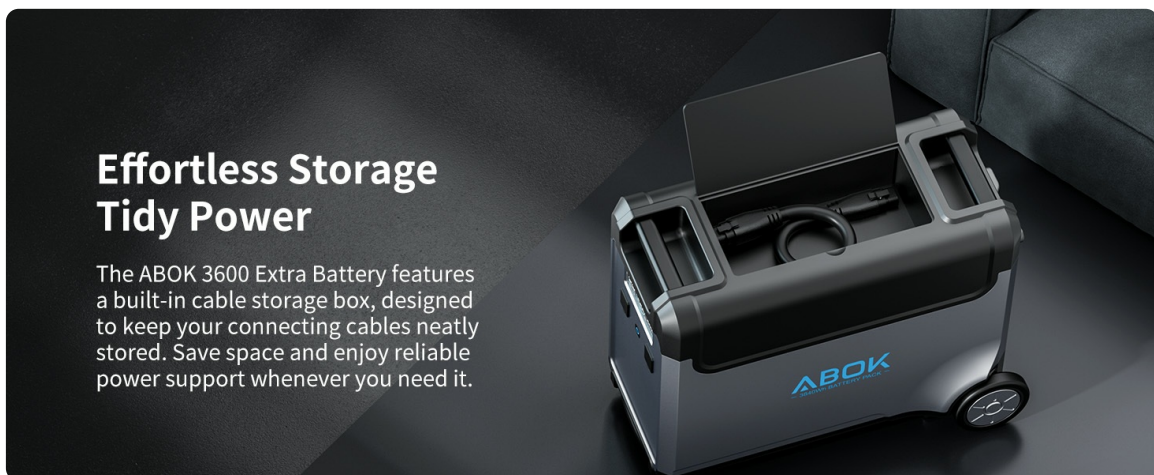


Image: The ABOK Ark3600 being managed via its smart app control interface on a smartphone.

## 5. KEY FEATURES

### 5.1 High Capacity & Expandability

The Ark3600 boasts a 3840Wh capacity, expandable up to 11520Wh by connecting up to two extra batteries. This ensures ample power for extended use.



Image: Multiple ABOK Ark3600 units connected to triple energy capacity.

## 5.2 EV-Grade LiFePO4 Battery

Built with robust EV-Grade Lithium Iron Phosphate (LiFePO4) batteries, the Ark3600 offers over 4000 charge cycles and a lifespan of up to 10 years, providing long-term reliability and safety.



Image: Internal view of the ABOK Ark3600 highlighting its durable EV-Grade LiFePO4 batteries with 4000+ cycle life.

## 5.3 Uninterruptible Power Supply (UPS)

Experience uninterrupted power with the ultra-fast UPS mode, which switches to battery power in less than 10 milliseconds during a power outage, protecting sensitive electronics.







 Refrigerator (800W) <b>4.1 Hrs</b>	 Air Conditioner (1000W) <b>3.3 Hrs</b>	 Washing Machine (500W) <b>6.5 Hrs</b>
 Toaster (800W) <b>4.1 Hrs</b>	 Dryer (1800W) <b>1.8 Hrs</b>	 Oven (1500W) <b>2.2 Hrs</b>



Image: The ABOK Ark3600 providing uninterruptible power supply (UPS) with an ultra-fast switchover.

## 5.4 Advanced Battery Management System (BMS)

The integrated BMS provides all-round protection, including high-temperature, low-temperature, overvoltage, battery, overcharge, short-circuit, overload, overcurrent, and overdischarge protection, ensuring safe and stable operation.

Specifications			
Capacity	3840Wh (Expandable up to 11520Wh max)	AC Charging	1500W Input,100V-120V
AC Output	5 x 3600W AC ( 1 x 30A, 4 x 20A )	Solar Charging	2000W Max Input, 12-160V
USB-A Output	2 x ( QC3.0 18W )	Car Charging	12V/10A Input
USB-C Output	1 x ( PD100W )	Battery	EV-Grade LiFePO4
USB-C Output	3 x ( PD20W )	Cycle Times	>4000
Car Power Output	1 x 12V/ 10A	Weight	92 lbs/ 42 kg
XT60 Output	1 x 12V/ 25A	Size	21.65 x 12.6 x 18.2 inch/ 55 x 32.1 x 46.4 cm
DC5521 Output	2 x 12V/ 3A	Package List	ABOK 3600 Power Station, AC Charging Cable, XT90 to MC4 Cable, Car Charging Cable, User Manual

Image: Visual representation of the ABOK BMS offering all-round protection for the power station.

## 5.5 Integrated Cable Storage

The ABOK Ark3600 Extra Battery features a built-in cable storage box, designed to keep your connecting cables neatly stored. This saves space and ensures reliable power support whenever you need it.

## 6. MAINTENANCE AND CARE

- Store the power station in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid exposing the unit to moisture or water.
- Clean the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- For long-term storage, charge the unit to 50-80% every 3-6 months to maintain battery health.
- Ensure ventilation openings are clear of obstructions during operation.

## 7. TROUBLESHOOTING

- **Unit Not Turning On:** Ensure the battery is charged. If completely depleted, connect to AC power for a few minutes before attempting to power on.
- **No Output from Ports:** Verify that the specific output (AC/DC/USB) is turned on via its respective button. Check for overload protection activation (reset button on the back).
- **Slow Charging:** Ensure all charging cables are securely connected. For solar charging, verify panels are in direct sunlight and free from obstructions. Check the adjustable AC input knob if charging from a wall outlet.
- **Over-Temperature Warning:** If the unit displays an over-temperature warning, allow it to cool

down in a well-ventilated area before resuming use or charging.

## 8. SPECIFICATIONS

Feature	Detail
Capacity	3840Wh (Expandable up to 11520Wh max)
AC Output	5 x 3600W AC (1 x 30A, 4 x 20A)
USB-A Output	2 x (QC3.0 18W)
USB-C Output	1 x (PD 100W), 3 x (PD 20W)
Car Power Output	1 x 12V/10A
XT60 Output	1 x 12V/25A
DC5521 Output	2 x 12V/3A
AC Charging Input	1500W Input, 100V-120V
Solar Charging Input	2000W Max Input, 12-160V
Battery Type	EV-Grade LiFePO4
Cycle Times	>4000
Weight	92 lbs / 42 kg
Size	21.65"L x 12.6"W x 18.2"H (55 x 32.1 x 46.4 cm)

## 9. WARRANTY AND SUPPORT

The ABOK Ark3600 Portable Power Station comes with a 2+3 years service period (total 5 years warranty). Should you experience any issues, please do not hesitate to reach out to us via Amazon, and we will respond within 12 hours.