

**AFERIY 2001A**

# AFERIY 2001A Portable Power Station User Manual

Model: 2001A

## 1. INTRODUCTION

The AFERIY 2001A Portable Power Station is a high-capacity, versatile power solution designed for various applications, including outdoor camping, RV use, home backup, and emergency situations. It features a 1997Wh LiFePO4 battery, providing a stable 2000W (4000W peak) pure sine wave AC output. This manual provides essential information for the safe and efficient operation and maintenance of your power station.

## 2. SAFETY INSTRUCTIONS

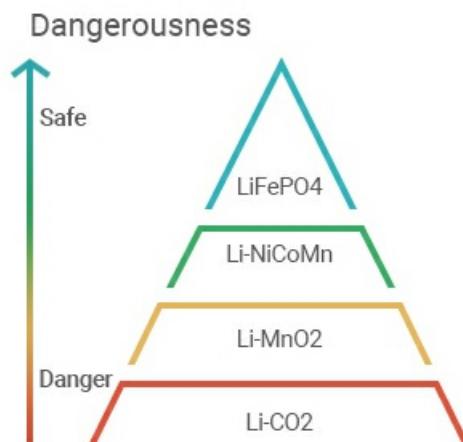
Please read and understand all safety instructions before operating the AFERIY 2001A Portable Power Station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not place the unit near fire or expose it to direct sunlight or high temperatures.
- Do not use or store the unit in a bathroom or in an area exposed to water or moisture.
- Do not drop, strike, or subject the unit to strong impacts.
- Keep the unit away from children and pets.
- Do not insert foreign objects into the ports or openings.
- Ensure proper ventilation during use to prevent overheating.
- Use only approved accessories and charging cables.
- In case of fire, use a dry powder fire extinguisher. Water may cause electric shock.

The integrated Battery Management System (BMS) provides multiple protections, including overcurrent, overload, over voltage, short circuit, low temperature, and low voltage protection. The pure sine wave inverter ensures stable voltage output, protecting connected equipment.



Diagram illustrating the BMS System Safety Protection features including over-voltage, low-voltage, over-heat, low-temperature, overload, and short-circuit protection.



Battery safety pyramid showing LiFePO4 as the safest battery chemistry compared to other lithium-ion types.

### 3. PACKAGE CONTENTS

Upon unpacking your AFERIY 2001A Portable Power Station, please verify that all the following items are included:

- AFERIY 2001A Portable Power Station ( $\approx 2000\text{Wh}$ )
- User Manual
- AC Charging Cable
- Solar Charging Cable (Anderson-MC4 Cable)
- Cord Storage Bag
- Dust Cover



Portable Power Station



User Manual



Anderson-MC4 Cable



AC Charger



Cord Storage Bag



Dust Cover

Image showing the AFERIY Portable Power Station and its included accessories: User Manual, Anderson-MC4 Cable, AC Charger, Cord Storage Bag, and Dust Cover.

## 4. PRODUCT OVERVIEW

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The AFERIY 2001A is a robust portable power station designed for high-power demands. It features a durable construction and a comprehensive array of output ports.

# 16 Devices Used at The Same Time



Diagram of the AFERIY 2001A Portable Power Station highlighting its various components and ports, including LCD Panel, Power button, Cooling Exhaust, USB button, AC Outlets (6pcs), LED Light, DC button, AC Input, and Solar Input.

## Key Features:

- High Capacity:** Approximately 1997Wh LiFePO4 battery.
- Powerful Output:** 2000W continuous AC output (4000W peak) with pure sine wave technology.
- Fast Charging:** AC charging can fully charge the unit in approximately 1.6 hours (1100W).
- Multiple Charging Methods:** Supports AC, solar, and car charging.

- **Versatile Ports:** 16 output ports including 6 AC outlets, 2 DC outputs, 4 USB ports (2 standard, 2 QC 3.0), 2 Type-C ports, 1 XT-60 output, and 1 car charging outlet.
- **Advanced Safety:** Equipped with a BMS for comprehensive protection.
- **Long Lifespan:** LiFePO4 battery offers over 3000 discharge cycles.
- **Uninterruptible Power Supply (UPS) Function:** Provides seamless power transition during outages.

## 5. SETUP

Before first use, ensure the power station is fully charged. Place the unit on a stable, flat surface in a well-ventilated area, away from direct sunlight or heat sources.

### Initial Charge:

1. Connect the AC charging cable to the AC input port on the power station.
2. Plug the other end of the AC charging cable into a standard wall outlet (110V).
3. The LCD display will indicate charging status. The unit will be fully charged in approximately 1.6 hours.

## 6. OPERATING INSTRUCTIONS

### 6.1 Powering On/Off

- To power on the unit, press and hold the main Power button for a few seconds until the LCD screen illuminates.
- To power off the unit, press and hold the main Power button again until the LCD screen turns off.

### 6.2 Charging the Power Station

The AFERIY 2001A supports three charging methods:



Image showing four ways to charge the AFERIY power station: AC with Solar Charging (1H), 500W Solar Charging (5-6H),

Car Charging (17H), and AC Charging (1.6H).

## **AC Charging:**

- Connect the AC charging cable to the AC input port and a wall outlet.
- Charging time: Approximately 1.6 hours.

## **Solar Charging:**

- Connect a compatible solar panel (not included) to the solar input port using the provided solar charging cable (Anderson-MC4).
- Ensure the solar panel is placed in direct sunlight for optimal charging.
- Charging time: Approximately 5-6 hours with a 500W solar panel.

# Self-Sufficient In Electricity (500W Max)

Solar energy helps reduce your monthly electricity bill



MPPT (Maximum Power Point Tracking) Solar Controller

AFERIY power station connected to a solar panel in an outdoor setting, illustrating solar charging capability.

## Car Charging:

- Connect the car charging cable (not included) to the car charging outlet on the power station and your vehicle's 12V cigarette lighter socket.
- Charging time: Approximately 17 hours.

## 6.3 Using Output Ports

Press the respective button (AC, DC, or USB) to activate the desired output ports. The LCD screen will show the active output wattage.

- **AC Outlets:** Connect devices requiring 110V AC power. The unit provides 2000W continuous power with a 4000W surge capacity.
- **DC Outlets (12V/3A, XT-60, Car Charging):** Suitable for 12V DC appliances.
- **USB Ports (USB-A, USB QC 3.0, Type-C):** For charging smartphones, tablets, laptops, and other USB-powered devices.



# High Capacity & High Output

Unparalleled over conventional power supplies

 Mini Refrigerator 150W <b>15~25</b> H	 Coffee Maker 600W <b>100</b> cups	 Drone 60W <b>25</b> X	 Cooker 850W <b>2</b> H	 Laptop 50W <b>30</b> X
 Phone 10W <b>160+</b> X	 Heated Blanket 40W <b>40</b> H	 Light 10W <b>160</b> H	 Electric Tools 750W <b>2</b> H	 CPAP 40W <b>40</b> H

AFERIY power station in use, powering a laptop and other devices in an outdoor setting, demonstrating its high capacity and output.

## 6.4 Uninterruptible Power Supply (UPS) Function

The AFERIY 2001A can function as an Uninterruptible Power Supply (UPS) for connected devices. When connected to a wall outlet and simultaneously powering devices via its AC outputs, it will automatically switch to battery power in the event of a power outage, providing a seamless transition within 0.01 seconds.

# UNINTERRUPTIBLE POWER SUPPLY UNIT (UPS EQUIPPED)

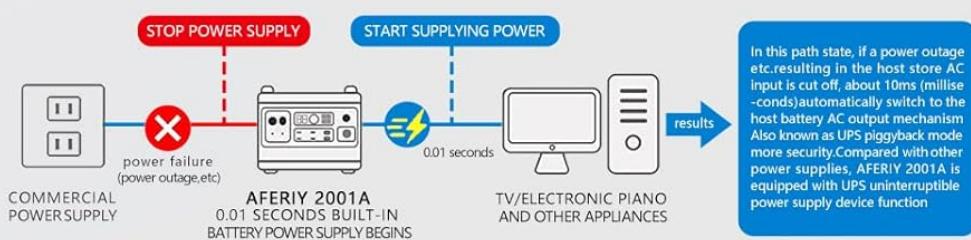


Diagram illustrating the UPS function of the AFERIY power station, showing it connected to a commercial power supply and a computer. In case of power failure, the power station instantly switches to battery power to keep the computer running.

## 7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your power station.

- **Storage:** Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge the unit to 50-80% every 3-6 months to preserve battery health.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure the cooling vents are clear of dust and debris to maintain proper airflow.
- **Battery Care:** The LiFePO4 battery is designed for over 3000 cycles. Avoid fully discharging the battery frequently to extend its lifespan.

## 8. TROUBLESHOOTING

If you encounter issues with your AFERIY 2001A, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on	Battery is completely discharged; Power button not pressed long enough.	Charge the unit using AC power. Press and hold the Power button for 3-5 seconds.
AC output not working	AC output not activated; Overload protection triggered; Device power exceeds 2000W.	Press the AC button to activate. Reduce the load. Check device wattage. Restart the unit.
Unit not charging	Charging cable loose or damaged; Charger not connected properly; Extreme temperature.	Ensure all connections are secure. Try a different outlet/cable. Charge within recommended temperature range.
LCD screen not displaying	Unit is off; Display error.	Press the Power button. If issue persists, contact customer service.

For issues not listed here, please contact AFERIY customer service.

## 9. SPECIFICATIONS

Feature	Specification
Model	2001A
Battery Type	LiFePO4
Capacity	1997Wh
AC Output	6 x 110V/2000W (Pure Sine Wave, 4000W Peak)
DC Output	2 x 12V/3A
USB-A Output	2 x 5V/2.4A

Feature	Specification
USB QC 3.0 Output	2 x 18W
Type-C Output	2 x 5-20V/5.0A
XT-60 Output	1 x 12V/10A
Car Charging Outlet	1 x 12V/10A
AC Charging Input	1100W (Full charge in approx. 1.6 hours)
Solar Charging Input	Supports up to 500W (Full charge in approx. 5-6 hours with 500W panel)
Cycle Life	>3000 cycles to 80% capacity
Dimensions (L x W x H)	19" x 14.6" x 16.9" (39 x 28 x 32 cm)
Weight	22 kg (48.5 lbs)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Charging Temperature	0°C to 40°C (32°F to 104°F)



Image showing the dimensions of the AFERIY 2001A Portable Power Station: 19 inches length, 14.6 inches width, and 16.9 inches height.

## 10. WARRANTY AND SUPPORT

AFERIY provides a worry-free 3-year warranty for the 2001A Portable Power Station. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or any questions regarding your product, please contact AFERIY customer service. Refer to the contact information provided in your product packaging or on the official AFERIY website.

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