

## AFERIY AF-P110

# AFERIY AF-P110 Portable Power Station 1200W User Manual

Model: AF-P110

## INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, setup, maintenance, and troubleshooting of your AFERIY AF-P110 Portable Power Station 1200W. Please read this manual thoroughly before using the product and retain it for future reference.

## SAFETY INSTRUCTIONS

- Do not disassemble, repair, or modify the unit.
- Do not expose the unit to fire or high temperatures.
- Keep away from water, high humidity, and direct sunlight.
- Use only specified chargers and accessories.
- Ensure proper ventilation during use and charging.
- Keep out of reach of children and pets.

## PACKAGE CONTENTS

Verify that all items are included in your package:

- AFERIY AF-P110 Portable Power Station
- AC Charger
- MC4-XT90 Cable (for solar charging)
- Dust Cover
- Cord Storage Bag
- User Manual



Image: Contents of the AFERIY AF-P110 Portable Power Station package, including the power station, AC charger, MC4-XT90 cable, dust cover, cord storage bag, and user manual.

## PRODUCT OVERVIEW

The AFERIY AF-P110 is a versatile portable power station designed for various power needs. It features a 960Wh LiFePO4 battery, 1200W (2400W surge) output, and 14 output ports.

### Key Features:

- **LiFePO4 Battery:** Offers over 3500+ life cycles to 80% capacity, ensuring long-term durability and safety.
- **Battery Management System (BMS):** Provides multiple protections including overheat/low-temperature protection and overload protection.
- **Fast Charging:** Fully charges in approximately 1.5 hours using combined AC and solar input. Supports AC, solar panel, and car charging.
- **14 Output Ports:** Includes 4 AC outlets, 4 USB ports, 4 Type-C ports (20W + 100W), 2 DC5521 ports, 1 car charging outlet, and 1 XT60 port.
- **Uninterruptible Power Supply (UPS):** Features a 10ms switch-over time for seamless power backup during outages.
- **LED Lights:** Integrated LED light with 3 modes (steady, strobe, SOS) for emergency and nighttime use.
- **Silent Operation:** Operates at less than 30dB under full load, and 16dB under normal load.
- **Durable Construction:** Made with ABS material, resistant to oil splash and fouling.

# LiFePO4 Battery & BMS System

Have a lifespan 6 times longer than others



LiFePO4 battery: After more than **3500+** cycles, it still has about 80% of its original capacity.  
BMS : overheat/low-temperature protection, overload protection, etc.

Image: Front view of the AFERIY AF-P110 Portable Power Station, highlighting its 14 different output ports including AC, USB, Type-C, DC, car lighter, and XT60. The display shows input/output wattage and battery percentage.

# UPS & LED Light



**If power outage suddenly, your device will be charged by this power station automatically within 0.01seconds.**

Image: Close-up of the AFERIY AF-P110 Portable Power Station's digital display, showing battery charge level, input/output power, and status indicators.

# What's in the box?



Power Station / AC Charger / MC4-XT90 Cable / Dust Cover / Cord Storage Bag / User Manual.

Image: An X-ray style view of the AFERIY AF-P110 Portable Power Station, illustrating the internal LiFePO4 battery cells and the Battery Management System (BMS) for enhanced safety and longevity.

## SETUP

1. **Unpacking:** Carefully remove the power station and all accessories from the packaging. Inspect for any damage.
2. **Initial Charge:** Before first use, fully charge the power station. Connect the AC charger to the AC input port and plug it into a wall outlet. The display will show charging status.
3. **Placement:** Place the power station on a stable, flat surface in a well-ventilated area, away from

direct sunlight, heat sources, and moisture.

## OPERATING INSTRUCTIONS

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### Turning On/Off:

Press and hold the main power button for a few seconds to turn the unit on or off. The display will illuminate upon activation.

### Using Output Ports:

To activate specific output groups (AC, DC, USB), press the corresponding power button for that section. The indicator light for the activated section will turn on.

- **AC Outlets:** Plug your AC-powered devices into the 110V AC outlets. Ensure the total wattage does not exceed 1200W (2400W surge).
- **USB & Type-C Ports:** Connect your USB-powered devices. The Type-C ports support fast charging up to 100W.
- **DC5521 & Car Charging Outlet:** Use for 12V DC devices.
- **XT60 Port:** For specific high-power DC devices.

### Charging the Power Station:

The AF-P110 supports multiple charging methods:

- **AC Wall Outlet:** Use the provided AC charger.
- **Solar Panels:** Connect compatible solar panels (up to 500W max) using the MC4-XT90 cable. For optimal charging, position panels in direct sunlight.
- **Car Charger:** Recharge using your vehicle's 12V car charging outlet.
- **Dual Charging:** Combine AC and solar charging for the fastest recharge time (approx. 1.5 hours).



Image: Illustration of the four fast charging methods for the AFERIY AF-P110: AC + Solar, AC 700W, 500W Solar Panel, and Car Cigar Socket. Each method shows the power station being charged by a different source.

### UPS Function:

When the power station is connected to an AC wall outlet and devices are plugged into its AC outputs, it acts as an Uninterruptible Power Supply (UPS). In case of a power outage, the unit will automatically switch to battery power within 0.01 seconds to keep connected devices running.

# 4 Fast Charging Methods

99% charged in 1 hour



AC + Solar / 1 hours



AC 700W / 2 hours



500W Solar Panel / 3 hours



Cigar Socket / 11 hours

The actual charging time is related to the environment the battery is in.

Image: The AFERIY AF-P110 Portable Power Station providing backup power to a computer setup during a simulated power outage, demonstrating its UPS functionality.

## LED Light:

Press the LED light button to cycle through its modes: steady on, strobe, and SOS. Press again to turn off.

## MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive materials.
- **Storage:** If storing for extended periods, charge the unit to 50-80% every 3-6 months to prolong battery life. Store in a cool, dry place away from direct sunlight.
- **Battery Care:** The LiFePO4 battery is designed for longevity. Avoid fully discharging the battery frequently to maximize its lifespan.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not turn on	Battery is depleted; Power button not pressed correctly	Charge the unit; Press and hold the power button for a few seconds
AC output not working	AC output not activated; Device exceeds 1200W; Overload protection triggered	Press the AC power button; Check device wattage; Disconnect device and restart AC output
Slow charging via solar	Insufficient sunlight; Incorrect panel angle; Damaged MC4-XT90 cable	Adjust panel position for direct sunlight; Check cable connections; Replace cable if damaged
Unit overheating	Poor ventilation; Excessive load	Ensure clear airflow around the unit; Reduce connected load

## SPECIFICATIONS

Brand	AFERIY
Model Number	AF-P110
Wattage	1200 Watts (Running), 2400 Watts (Starting/Surge)
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Battery Capacity	960Wh
Power Source	Battery-powered, Solar-powered
Voltage	110 Volts
Total Power Outlets	14
Material	ABS
Item Weight	15 Kilograms (33 pounds)
Product Dimensions	15.3 x 9 x 12 inches
Frequency	60 Hz



Image: Side view of the AFERIY AF-P110 Portable Power Station with its dimensions labeled as 15.3 inches (length), 9 inches (width), and 12 inches (height).

## WARRANTY AND SUPPORT

The AFERIY AF-P110 Portable Power Station comes with an industry-leading **5-year warranty**, extendable to **7 years**. For any questions or support needs after purchase, please contact AFERIY customer service for assistance.

Contact information can typically be found on the official AFERIY website or through your purchase platform.

## PRODUCT VIDEO

Your browser does not support the video tag.

Video: An official AFERIY product video titled "AFERIY My Power My Free Way," showcasing the portable power station's versatility in various outdoor and indoor scenarios, emphasizing freedom and connectivity. This video demonstrates the product's use in camping, home backup, and powering tools.