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AFERIY AF-P010

AFERIY Portable Power Station AF-P010 User Manual

Model: AF-P010

1. PRODUCT OVERVIEW

The AFERIY Portable Power Station AF-P010 is a versatile and reliable power source designed for various applications, including home backup, outdoor activities, and emergency situations. It features a 512Wh LiFePO4 battery, an 800W AC output (1600W surge), and multiple charging and output ports to power a wide range of devices.



Image 1.1: Front view of the AFERIY Portable Power Station AF-P010, showcasing its compact design and display panel.

Key Features:

- High Capacity & Output:** 512Wh battery capacity with 800W continuous AC output (1600W peak).
- Fast Charging:** Fully recharges in approximately 1.5 hours via 400W AC input.
- Durable Battery:** Equipped with LiFePO4 battery technology, offering over 3500 charge cycles to 80% capacity.
- Multiple Ports:** Includes AC, USB-A QC3.0, USB-C (PD 100W/20W), DC6530, and car charging outlets.
- Uninterruptible Power Supply (UPS):** Automatic switchover in 0.1 seconds during power outages.
- Informative Display:** LCD panel shows real-time input/output wattage, battery level, and remaining usage time.
- Integrated Lighting:** LED light with multiple modes (Lighting, SOS, Flashing) for various needs.

2. SAFETY INSTRUCTIONS

Read all safety warnings and instructions carefully before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Do not place the unit near heat sources or in direct sunlight.
- Avoid exposure to rain or moisture.

- Keep the unit away from children and pets.
- Use only original or certified accessories.
- Ensure proper ventilation during use and charging.
- In case of fire, use a dry powder fire extinguisher. Water may cause electric shock.
- Do not operate the unit if it has been damaged or dropped.



Image 2.1: Diagram illustrating the Battery Management System (BMS) and its protective features, including short circuit, overload, and temperature protection.

3. PRODUCT COMPONENTS

Familiarize yourself with the components included in your package and the various ports on the power station.

Package Contents:

Package Included



1. Box
2. Portable Power Station
3. Accessories bag
4. Car Charging Cable
5. MC4 to XT60 Cable
6. Dust cover
7. Warranty card
8. User Manual

Image 3.1: Contents of the AFERIY Portable Power Station package, including the power station, accessories bag, car charging cable, MC4 to XT60 cable, dust cover, warranty card, and user manual.

1. AFERIY Portable Power Station AF-P010
2. AC Charging Cable
3. Car Charging Cable
4. MC4 to XT60 Cable (for solar charging)

5. User Manual
6. Warranty Card
7. Accessories Bag
8. Dust Cover

Port Layout:

8 Different Pratiqe Outputs

Support 8 devices at the same time



AC 800W / Type-C x 3 (100W+20W) / QC3.0 USB x 2 / DC x 1 / Car Charger x 1

Image 3.2: Detailed view of the power station's front panel, labeling the car charger input, DC output port, DC control, main power button, USB ports (QC3.0, Type-C), and light control.

- **AC Output (800W):** For standard household appliances.
- **USB-A QC3.0 (x2):** For quick charging compatible USB devices.
- **USB-C (PD 100W x1, PD 20W x2):** For fast charging laptops, tablets, and smartphones.
- **DC6530 Output:** For DC-powered devices.
- **Car Charging Outlet:** For 12V car appliances.
- **DC Input:** For charging via solar panel or car charger.
- **AC Input:** For charging via wall outlet.
- **LCD Display:** Shows operational status.
- **Power Button:** To turn the unit on/off.
- **LED Light:** Provides illumination.

4. SETUP

Before first use, ensure the power station is fully charged.

Initial Charging:

1. Unpack the power station and all accessories.
2. Connect the AC charging cable to the AC input port on the power station.
3. Plug the other end of the AC charging cable into a standard wall outlet (110V).
4. The LCD display will show the charging status. The unit will be fully charged in approximately 1.5 hours.
5. Once fully charged, disconnect the charging cable.

5. OPERATING INSTRUCTIONS

Turning On/Off:

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

Using Output Ports:

- **AC Output:** Press the AC button to activate the AC outlets. Plug your devices into the AC ports. Press the AC button again to turn off.
- **USB Output:** The USB-A and USB-C ports are typically active when the unit is on. Simply plug in your USB devices.
- **DC Output:** Press the DC button to activate the DC6530 and car charging outlets. Plug in your 12V DC devices. Press the DC button again to turn off.

Ensure the total power consumption of connected devices does not exceed the power station's rated output (800W continuous, 1600W surge).

Tiny but Mighty

512Wh & 800W & 1600W (Peak)



Image 5.1: The AFERIY Power Station connected to and powering various electronic devices, demonstrating its versatility for different power needs.

Charging the Power Station:

Charging Methods



200W Solar Panel

Takes about 3.5 hours



Cigar Socket

Takes about 4-6 hours



AC Socket

Takes about 1.5 hours

Image 5.2: Illustrations of the three primary charging methods: solar panel (top), car cigar socket (bottom left), and AC wall outlet (bottom right).

- **AC Wall Charging:** Connect the AC charging cable to the AC input port and a wall outlet. Full charge in approximately 1.5 hours.
- **Solar Panel Charging:** Connect a compatible solar panel (max 200W) to the DC input port using the MC4 to XT60 cable. Charging time varies based on sunlight intensity and panel wattage (approx. 3.5 hours with 200W panel).
- **Car Charging:** Connect the car charging cable to the DC input port and your vehicle's 12V car charging outlet. Full charge in approximately 4-6 hours.

UPS Function:

When the power station is connected to an AC wall outlet and has devices plugged into its AC output, it can function as an Uninterruptible Power Supply (UPS). In the event of a power outage, the unit will automatically switch to battery power within 0.1 seconds to continue powering connected devices.

LED Light Operation:

- Press the light button once for standard illumination.
- Press again for SOS mode (flashing pattern).
- Press a third time for flashing mode.
- Press a fourth time to turn off the light.

LCD Display Information:



Image 5.3: Close-up view of the power station's LCD display, showing input/output wattage, battery percentage, and estimated remaining usage time.

The LCD display provides real-time information about the power station's status:

- **Battery Level Indicator:** Shows the current battery percentage.
- **Input Power:** Displays the wattage being drawn for charging.
- **Output Power:** Displays the wattage being consumed by connected devices.
- **Remaining Time:** Estimates the remaining operating time or charging time based on current power usage.
- **Error Indicators:** Alerts for various issues such as overload or temperature warnings.

6. MAINTENANCE

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

Storage:

- Store the power station in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, charge the unit to approximately 50-80% every 3-6 months to maintain battery health.
- Avoid storing in environments with high humidity or corrosive substances.

Cleaning:

- Ensure the unit is turned off and disconnected from all power sources before cleaning.
- Use a soft, dry cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- Keep the ventilation openings clear of dust and debris.

Battery Care:



Image 6.1: Internal view highlighting the LiFePO4 battery cells and the Battery Management System (BMS), which contributes to the battery's extended lifespan of over 3500 cycles.

- The LiFePO4 battery is designed for a long lifespan (over 3500 cycles).
- Avoid fully discharging the battery frequently, as this can reduce its overall lifespan.
- If the unit will not be used for an extended period, charge it to 50-80% before storage.

7. TROUBLESHOOTING

If you encounter issues with your AFERIY Portable Power Station, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely discharged; Power button not pressed long enough.	Charge the unit using the AC adapter; Press and hold the power button for 3-5 seconds.
AC output not working	AC output not activated; Device power consumption too high; Overload protection triggered.	Press the AC button to activate; Check device wattage; Disconnect device, restart unit.
Unit not charging	Charging cable not properly connected; Charger fault; Extreme temperature.	Ensure all connections are secure; Try a different charging method; Move unit to a suitable temperature range (0-40°C).
LCD display shows error code	Internal fault; Overload; Over-temperature.	Refer to the specific error code in the full manual (if available) or contact customer support. Disconnect devices and allow unit to cool if temperature related.

If the problem persists after attempting these solutions, please contact AFERIY customer support.

8. SPECIFICATIONS

Detailed technical specifications for the AFERIY Portable Power Station AF-P010.

Feature	Specification
Model	AF-P010
Battery Type	LiFePO4
Capacity	512Wh
AC Output	800W (Continuous), 1600W (Peak)
AC Voltage	110V
USB-A Output	2 x QC3.0
USB-C Output	1 x PD 100W, 2 x PD 20W
DC Output	1 x DC6530, 1 x Car Charging Outlet

Feature	Specification
AC Input Charging Time	Approx. 1.5 hours (400W)
Solar Input (Max)	200W
Dimensions (L x W x H)	10.6" x 6.6" x 8.2" (26.9cm x 16.8cm x 20.8cm)
Weight	12.3 lbs (5.6 kg)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Certifications	UL, CE, FCC, PSE, RoHS, TEC



Image 8.1: Graphic illustrating the pure sine wave output of the power station, ensuring compatibility with sensitive electronics.

Light and Portable



Only 6.25kg

Image 8.2: A person carrying the AFERIY Portable Power Station, demonstrating its lightweight and portable design for easy transport.

9. WARRANTY AND SUPPORT

Warranty Information:

The AFERIY Portable Power Station AF-P010 comes with an industry-leading 5-year warranty, with an additional 2 years available upon product registration, totaling up to 7 years of coverage. This warranty covers defects in materials and workmanship under normal use.

Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

Customer Support:

For any questions, technical assistance, or warranty claims, please contact AFERIY customer support through the following channels:

- **Email:** Refer to your warranty card or the official AFERIY website for contact details.
- **Website:** Visit the official AFERIY website for FAQs, support resources, and contact forms.

When contacting support, please provide your product model (AF-P010) and purchase date to expedite assistance.