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> [AFERIY 3840Wh Portable Power Station,120V AC Outlets x 5,2.5H Fast Charge,3600W LiFePO4 Battery Power Station,Solar Generator for Home Use,Outdoor Camping,Power Outage,Camping,RV,Emergencies AF-P310-EC-H](#)

AFERIY AF-P310-EC-H

AFERIY AF-P310-EC-H Portable Power Station User Manual

Your Reliable Power Solution

1. INTRODUCTION

The AFERIY AF-P310-EC-H Portable Power Station is a versatile and powerful energy solution designed to meet your power needs in various scenarios, from home emergencies to outdoor adventures. With its high capacity and multiple output options, it ensures you stay powered wherever you are.

What's in the Box:

- 3600W Portable Power Station
- AC Charging Adapter
- MC4-XT90 Cable
- Storage Bag
- Protective Cover
- User Manual

Note: Solar panels and expansion batteries are available separately.

2. SETUP

2.1 Power Station Setup

The AFERIY AF-P310-EC-H is designed for easy portability with built-in wheels and an extendable handle. Simply pull the handle and tilt the unit to roll it to your desired location. For stationary use, ensure it is placed on a stable, flat surface.



The AFERIY AF-P310-EC-H features a sturdy handle and smooth wheels for easy transport.

2.2 Solar Panel Connection (Optional)

To connect solar panels (sold separately), unfold the panels and position them to maximize sun exposure. Connect the MC4-XT90 cable to your solar panels and then to the XT90 input port on the power station. The power station will automatically begin charging.

Your browser does not support the video tag.

Official AFERIY video demonstrating the function and setup of the P310 portable power station, including solar panel connection.

< 10ms UPS

120V/ 3600W Output

Up to 11520Wh
expandable Capacity

30 dB

10-YEAR
Long-lasting LFP Battery

6 Fast Charging
Methods

Hand Luggage
Design
(Handles + Wheels)

7-YEAR
Coverage

7-YEAR
Coverage

The power station can be charged using solar panels for sustainable energy.

3. OPERATING THE POWER STATION

3.1 Display Screen

The front display screen provides real-time information about the power station's status, including input/output wattage, battery percentage, and estimated remaining runtime.

3.2 Output Ports

The AF-P310-EC-H features 15 output ports to power a wide range of devices simultaneously:

- 5 x AC Outlets (120V)
- 2 x USB-A Ports (QC 3.0)
- 4 x USB-C Ports (PD 20W x 3, PD 100W x 1)
- 2 x DC5521 Ports (12V/3A)
- 1 x Car Socket (12V/10A)
- 1 x XT60 Port (12V/25A)

Power Ports

with **15 Ports**

 Type-C PD 100W *1

 Type-C PD 20W *3

 USB QC3.0 *2

Adjustable Input Power Knob

 Cigarette Lighter *1

 DC5521 12V/3A *2

 XT60 12V/25A *1

 AC Output 20A *4

 AC Output 30A *1



 LED Light 3W *1

 AC Input *1
 XT90 Solar Input *1

 Overload Protection Button *1

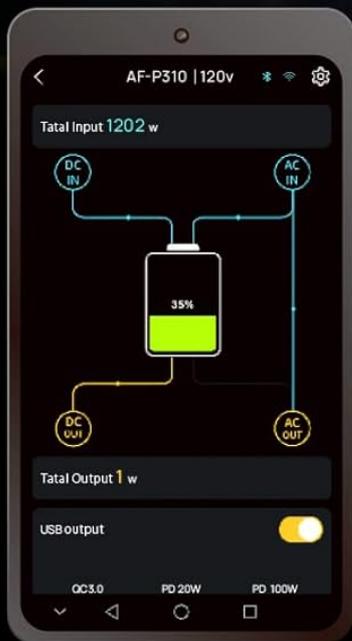
 Extra Battery Port *2

Detailed view of the power station's numerous output ports.

3.3 Mobile App Control

Control and monitor your power station remotely using the dedicated AFERIY mobile app. The app allows you to view real-time power consumption, battery status, and adjust settings from your smartphone.

Smart APP can control the Power



Manage your power station conveniently through the AFERIY mobile application.

4. CHARGING METHODS

The AFERIY AF-P310-EC-H supports multiple charging methods to ensure your power station is always ready for use.

4.1 AC Wall Charging

Charge the power station from a standard AC wall outlet using the included AC charging adapter. It can reach 100% capacity in just 2.5 hours. The input regulator knob allows you to adjust the charging speed as needed.

<10ms UPS

120V/ 3600W Output

Up to 11520Wh
expandable Capacity

30 dB

10-YEAR
Long-lasting LFP Battery

Hand Luggage Design
(Handles + Wheels)

7-YEAR Coverage

6 Fast Charging
Methods

Fast charging from an AC wall outlet in approximately 2.5 hours.

4.2 Solar Charging

Utilize solar panels (sold separately) to charge the power station with clean, renewable energy. With 5 x 400W solar panels, it can be fully charged in 2.5 hours, boasting up to 23% solar conversion efficiency.

AFERIY AF-P310-EC-H
3840Wh Power Station
For Travel & Home Use

3840Wh Capacity
11520Wh Expandable Up To
2.5hrs Quick Speed
3600W AC
15 Output Ports
10 Years Lifespan

Efficient solar charging for off-grid power generation.

4.3 Car Charging

The power station can also be charged using your car's 12V/24V car charger, providing a convenient charging option on the go. Full car charging takes approximately 32 hours.



- 
231 times
 Phone (3915mAh)
- 
210 times
 Switch (4310mAh)
- 
48 times
 Laptop (70W)
- 
260 times
 Drone (3500mAh)
- 
115 hr
 Bluetooth Speaker (10W)
- 
51.6 hr
 Projector (65W)

Charge your power station from your vehicle's car socket.

5. SAFETY FEATURES

The AFERIY AF-P310-EC-H is equipped with a robust Battery Management System (BMS) that provides 6 levels of safety protection to ensure reliable and safe operation:

- Charge Over-Voltage Protection
- Discharge Low Voltage Protection
- Charge/Discharge High Temperature Protection
- Charge/Discharge Low Temperature Protection
- Charge/Discharge Overcurrent Protection
- Charge/Discharge Short Circuit Protection

The advanced BMS ensures comprehensive protection for the battery and connected devices.

6. SPECIFICATIONS

Feature	Specification
Brand	AFERIY
Model Number	AF-P310-EC-H
Wattage	3600 Watt-hours
Fuel Type	Electric
Power Source	AC/DC
Item Weight	104.72 Pounds

Voltage	120 Volts
Output Wattage	3600
Product Dimensions	27.32"L x 15.9"W x 23.11"H
Material	ABS
Total Power Outlets	5
Current Rating	3600 Amps
Running Wattage	3.6E+3 Watts

7. TROUBLESHOOTING

If you encounter issues with your AFERIY Power Station, try the following common troubleshooting steps:

- **No Power/Display Off:** Ensure the power button is pressed firmly. Check if the battery is completely discharged and connect to a charging source.
- **Device Not Charging:** Verify that the power station is turned on and the specific output port (AC/DC/USB) is activated. Check if the device's power requirements exceed the port's output limit or the station's total output.
- **Overload Protection Activated:** If the overload protection button pops out, it means the connected devices are drawing too much power. Disconnect some devices, press the reset button, and try again.
- **Slow Charging:** Ensure the charging source (wall outlet, solar panels, car charger) is providing adequate power. For solar charging, optimize panel angle and ensure no shading. Adjust the input regulator knob to a higher wattage if desired.
- **Fan Noise:** The internal fans will activate automatically to cool the unit during high power output or charging. This is normal operation.

8. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to 50-80% and recharge every 3-6 months to prevent deep discharge.
- **Battery Care:** While LiFePO4 batteries are durable, avoid consistently fully discharging the unit. Regular partial discharges and recharges are beneficial for battery health.

9. WARRANTY AND SUPPORT

The AFERIY AF-P310-EC-H Portable Power Station comes with a **5+2 Years Warranty**, providing extended peace of mind. For any support inquiries, technical assistance, or warranty claims, please contact AFERIY customer support directly through their official channels or the seller from whom you purchased the product.