Apowking New-fd-1

Apowking 500W Portable Power Station User Manual

Model: New-fd-1
Brand: Apowking

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1. Introduction

The Apowking 500W Portable Power Station is a versatile and reliable power solution designed for various applications, including home backup, outdoor camping, RV trips, and emergency situations. With a high capacity of 296Wh (80,000mAh) and a 500W pure sine wave AC output, it can power a wide range of electronic devices and small appliances. This manual provides detailed instructions for the safe and efficient use of your power station.

2. Package Contents

Please verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer service.

- 1 x Apowking HP500 Portable Solar Generator
- 1 x AC Adapter
- 1 x 12V Car Charging Cable
- 1 x User Manual



Image: Apowking HP500 Portable Power Station with its accessories, including the AC adapter, 12V car charging cable, and the user manual.

3. Product Features

The Apowking 500W Portable Power Station is equipped with multiple features for optimal performance and user convenience:

- **High Capacity:** 296Wh (80,000mAh) battery for extended power supply.
- **Multiple Outputs:** 2 x 110V/500W Pure Sine Wave AC outlets, 4 x QC USB (5V/2.4A, max 12W) ports, and 1 x DC vehicle output port (12-16V/10A max).
- **Fast Charging:** Supports 15V/9A Max fast charging via solar panel (sold separately) or AC wall outlet.
- **3 Ways to Recharge:** AC wall outlet, 12V car outlet, or solar panel (sold separately).
- **Portable Design:** Lightweight (8.3 lbs) and compact with a sturdy handle for easy transport.
- **Built-in LED Flashlight:** Features Light, Strobe, and SOS modes for emergency use.
- **Smart LCD Display:** Provides real-time information on battery level, output status, and warnings.

- **Safety Protections:** Includes over-temperature protection, short-circuit protection, and a built-in cooling fan.



Image: Detailed view of the Apowking HP500's multifunctional outlets, including power button, USB ports, LED switch, AC outlets, input ports, fast charge switch, and cigarette lighter port.

4. Setup

4.1 Initial Charge

Before first use, it is recommended to fully charge the power station. This ensures optimal battery performance and longevity.

1. Connect the provided AC adapter to the 15V input port on the power station.
2. Plug the AC adapter into a standard wall outlet.
3. The LCD display will show the charging progress. The unit is fully charged when the battery indicator is full.

4.2 Placement

Place the power station on a stable, flat surface. Ensure adequate ventilation around the unit to prevent overheating, especially during charging or heavy use.

5. Operating Instructions

5.1 Powering On/Off

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

5.2 Charging the Power Station

Your Apowking power station can be recharged using three methods:

1. **AC Wall Outlet:** Connect the provided AC adapter to the 15V input port and plug it into a wall outlet.
2. **12V Car Outlet:** Use the provided 12V car charging cable to connect the power station to your vehicle's cigarette lighter port.
3. **Solar Panel (Sold Separately):** Connect a compatible solar panel (DC 13-23V, 40-120W) to the Solar Input port. For faster charging, press the **Fast Charge Switch** next to the solar input port.



Image: Visual representation of the three charging methods for the Apowking power station: solar panel (sold separately), AC wall outlet (adapter included), and 12V car charging port (cable included).

5.3 Using the Outputs

The power station offers various output ports to power different devices:

- **AC Output (110V/500W):** Press the **AC ON/OFF** button to activate the AC outlets. Plug in devices with a rated power less than 500 watts. *Note: Turn off the AC output when not in use to conserve battery power.*
- **USB Output (5V/2.4A):** Simply plug your USB devices into any of the four USB ports. These ports are always active when the unit is powered on.
- **DC Vehicle Output (12-16V/10A max):** Connect your 12V car appliances to this port. This port is always active when the unit is powered on.



Image: The Apowking HP500 power station connected to and charging a laptop, demonstrating its capability to power various electronic devices.

5.4 LED Flashlight Operation

The built-in LED flashlight has three modes:

- Press the **LED Switch** once for constant light mode.
- Press again for strobe mode.
- Press a third time for SOS mode.
- Press a fourth time to turn off the flashlight.



Image: The Apowking HP500 power station's smart LCD display and illuminated LED light, providing visibility in a low-light outdoor environment.

6. Maintenance

- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures.
- **Recharge Frequency:** To maintain battery health, fully charge and discharge the unit at least once every three months.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.
- **Ventilation:** Ensure the cooling fan vents are not obstructed during operation to prevent overheating. The built-in cooling fan will automatically activate when needed.

7. Troubleshooting

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is completely depleted.	Charge the unit using the AC adapter for at least 30 minutes.
AC output not working.	AC output is not activated or device exceeds 500W.	Press the AC ON/OFF button. Ensure the connected device's power consumption is below 500W. For heating products, keep below 200W.
Red triangle warning on LCD.	Unit is performing a self-check when AC output is turned on.	This is normal. The triangle will disappear after the self-check is complete.
Unit not charging via solar panel.	Solar panel not compatible or insufficient sunlight.	Ensure solar panel output is DC 13-23V, 40-120W. Place panel in direct sunlight. Check cable connections.
Cooling fan runs frequently.	Normal operation during high load or high ambient temperature.	This is expected behavior to prevent overheating. Ensure vents are clear.

8. Specifications

Feature	Detail
Model Name	New-fd-1
Battery Capacity	296Wh (80,000mAh)
AC Output	2 x 110V/500W Pure Sine Wave
USB Output	4 x QC USB (5V/2.4A, max 12W)
DC Vehicle Output	1 x 12-16V/10A max
Input Voltage (AC Adapter)	15V/9A Max
Solar Input	DC 13-23V, 40-120W
Dimensions (LxWxH)	12.2" x 4.7" x 7.9"
Weight	8.3 Pounds (3.76 kg)
Material	Plastic
Color	Red, Black

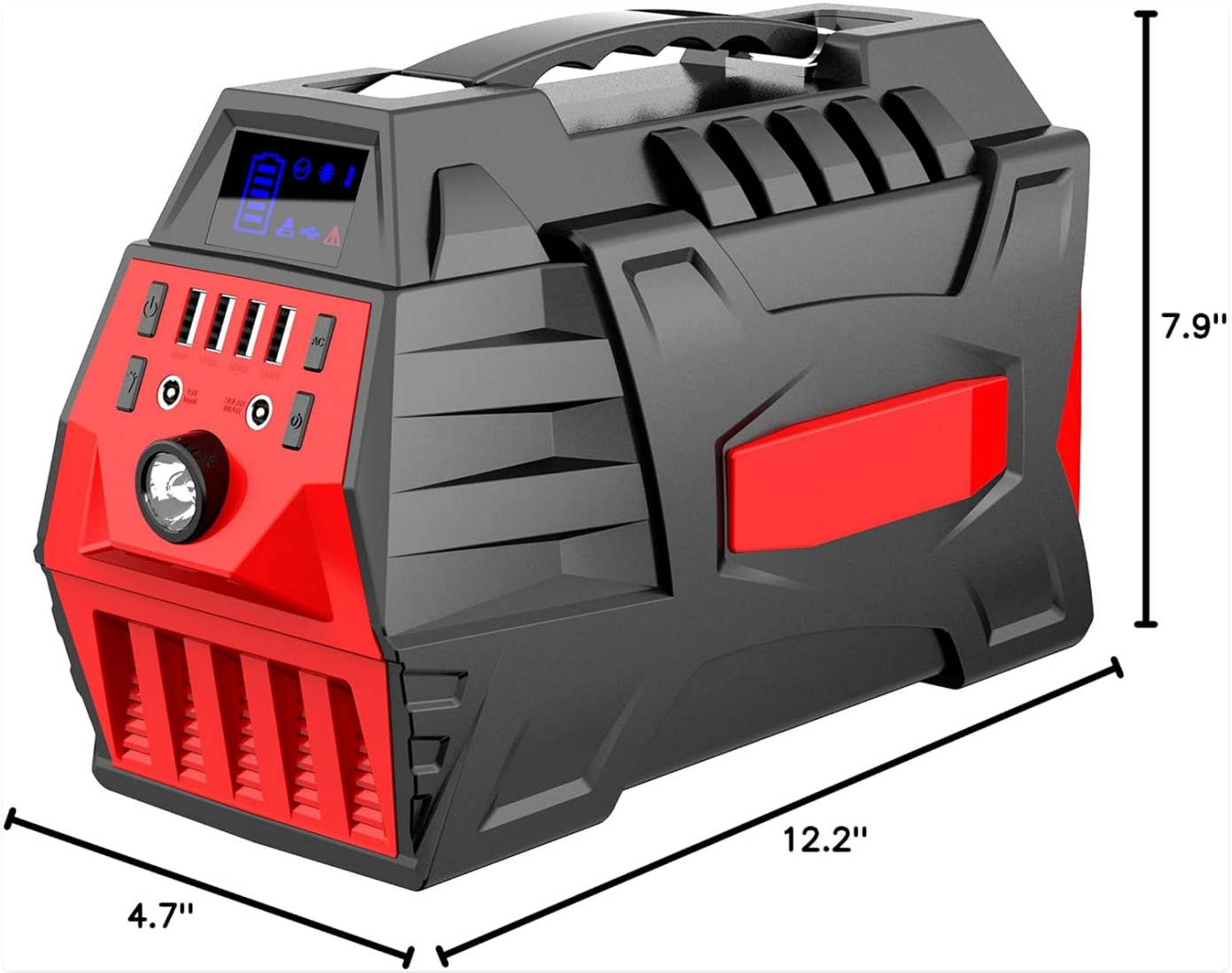


Image: Dimensions of the Apowking HP500 Portable Power Station, indicating its compact size for portability.

9. Warranty and Support

Apowking provides comprehensive support for your product:

- **Warranty:** 1 Year Warranty.
- **Returns:** 30 Days Worry-Free Return.
- **Customer Service:** 7*24 Hours Prompt and Friendly Customer Service.
- **Technical Support:** Lifetime Technical Support.

For any questions or assistance, please feel free to contact us. Your satisfaction is our priority.

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Ask a question about this manual

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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