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BESTEK MRP450A-1511

BESTEK Portable Power Station 167Wh User Manual

Model: MRP450A-1511

1. INTRODUCTION

Thank you for choosing the BESTEK Portable Power Station. This device is a compact and lightweight lithium-ion battery generator designed to provide reliable power for various electronic devices. It features AC outlets, USB ports, and a 12V DC car socket, making it ideal for outdoor activities, emergencies, and general portable power needs. Please read this manual thoroughly before use to ensure safe and optimal operation.

Package Contents:

- BESTEK Portable Power Station x 1
- AC Charger x 1
- Car Cigarette Lighter Charger x 1
- Travel Case x 1
- User Manual x 1
- Service Card x 1



Image: The BESTEK Portable Power Station shown with its included accessories: AC charger, car charger, travel case, user manual, and service card.

2. SAFETY INSTRUCTIONS

To ensure safe operation and prolong the lifespan of your power station, please observe the following safety precautions:

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Keep the unit away from water, fire, and extreme temperatures (above 40°C/104°F or below 0°C/32°F).
- Use only the specified charging accessories provided with the unit or approved by BESTEK.
- Avoid dropping or subjecting the unit to strong impacts.
- Ensure proper ventilation during use and charging. Do not block the cooling fan or air inlets/outlets.
- Do not insert foreign objects into the ports or openings.
- Keep out of reach of children.
- If the unit emits smoke, unusual odors, or makes strange noises, stop using it immediately and contact customer support.
- Do not use the unit in a sealed environment or where flammable gases may accumulate.

Multiple Protection

Protect power station and the charging devices



Short circuit protection



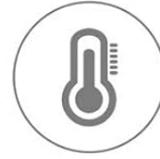
Low voltage protection



Over voltage protection



Over load protection



Over temperature protection



Intelligent protection circuit device



Intelligent overload protection

Image: Diagram illustrating the multiple protection features of the power station, including short circuit, low voltage, over voltage, overload, and over temperature protection.

3. PRODUCT OVERVIEW

The BESTEK Portable Power Station integrates multiple power outputs and safety features into a compact design.

Ultra Compact and lightweight



Image: A detailed view of the BESTEK Portable Power Station, highlighting its components: Cigarette lighter socket, Air inlet, USB Ports, AC outlets, Power On/Off button, DC recharging port, and Smart cooling fan. Dimensions are also indicated: 9.56 inches length, 7.4 inches width, and 1.7 inches height.

Key Components:

- **AC Outlets:** Two 110V AC outlets for powering standard household electronics up to 150W.
- **USB Ports:** Three smart USB charging ports (0-2.4A per port, 4.2A max total) for mobile devices.
- **Cigarette Lighter Socket:** One 12V DC output for car-powered devices.
- **DC Recharging Port:** Input for AC adapter, car charger, or solar panel.
- **Power On/Off Button:** Controls the main power to the unit.
- **Battery Indicator Lights:** LED indicators showing the remaining battery capacity.
- **Smart Cooling Fan:** Automatically activates to dissipate heat during operation.

3 in 1 Combination Power Station



150w Pure sine
wave inverter



45000mAh
Power bank



Cigarette
lighter



Image: An illustration demonstrating the 3-in-1 functionality of the power station, highlighting its role as a 150W Pure Sine Wave Inverter, a 45000mAh Power Bank, and a Cigarette Lighter power source.

4. SETUP

Initial Charging:

Before using your BESTEK Portable Power Station for the first time, it is recommended to fully charge it. This ensures optimal battery performance and longevity.

1. Connect the provided AC adapter to the DC recharging port on the power station.
2. Plug the AC adapter into a standard wall outlet (100-240V AC).
3. The battery indicator lights will illuminate, showing the charging progress. All lights will be solid when fully charged.
4. Once fully charged, disconnect the AC adapter.

5. OPERATING INSTRUCTIONS

Powering On/Off:

- To turn on the power station, press and hold the Power On/Off button for approximately 2-3 seconds until the battery indicator lights illuminate.
- To turn off the power station, press and hold the Power On/Off button again for approximately 2-3 seconds until the lights turn off.

Using AC Outlets:

The power station provides pure sine wave AC output, which is suitable for sensitive electronics.

Pure Sine Wave AC Output
Better drive capability and protect sensitive devices

Wave type comparison

Pure Sine Wave — Modified Wave —

100% Keep equipment service life

40% Reduce power consumption

The image shows a black BESTEK portable power station on a white surface. A silver laptop is connected to the station via a white AC power cord. A smartphone is also connected to the station via a white USB-C charging cable. The power station has a green power button and several indicator lights on its front panel. The background is a light blue gradient with a graph comparing a smooth blue sine wave (Pure Sine Wave) and a jagged white square wave (Modified Wave).

Image: The BESTEK Portable Power Station connected to a laptop and a smartphone, demonstrating its pure sine wave

AC output capability. A graph compares pure sine wave to modified wave, highlighting the benefits for equipment service life and reduced power consumption.

1. Ensure the power station is turned on.
2. Plug your device's AC power cord into one of the 110V AC outlets.
3. Ensure the total wattage of connected devices does not exceed 150W. Overloading will trigger the protection mechanism and shut down the unit.
4. When finished, disconnect your devices and turn off the power station.

Using USB Ports:

The three USB ports feature smart charging technology, automatically detecting and delivering the optimal current for your devices.

1. Ensure the power station is turned on.
2. Connect your USB-powered device (e.g., smartphone, tablet, camera) to any of the USB ports using a compatible USB cable.
3. The device will begin charging automatically.
4. When finished, disconnect your devices.

Using DC Car Socket:

1. Ensure the power station is turned on.
2. Plug your 12V DC car-powered device into the cigarette lighter socket.
3. Ensure the device's power consumption does not exceed 150W.
4. When finished, disconnect your devices.

Battery Indicator:

The LED lights on the unit indicate the remaining battery capacity. Each light typically represents a percentage of the total capacity. Refer to the product's display for exact interpretation.

6. RECHARGING METHODS

The BESTEK Portable Power Station offers three convenient ways to recharge:

3 Recharging Method

Convenient to recharge the battery power station



Cigarette lighter plug



AC adapter



Solar Panels
(need to buy separately)



Image: An illustration detailing the three recharging methods for the BESTEK Portable Power Station: using a cigarette lighter plug in a car, an AC adapter from a wall outlet, and solar panels (sold separately).

A. Using AC Adapter (Wall Outlet):

1. Connect the provided AC adapter to the DC recharging port on the power station.
2. Plug the AC adapter into a standard wall outlet.
3. The battery indicator lights will show charging progress.

B. Using Car Charger:

1. Connect the provided car charger to the DC recharging port on the power station.
2. Plug the other end of the car charger into your vehicle's cigarette lighter socket.
3. The battery indicator lights will show charging progress.

C. Using Solar Panel (Sold Separately):

1. Connect a compatible 15V-24V solar panel (not included) to the DC recharging port on the power station.
2. Ensure the solar panel is placed in direct sunlight for efficient charging.
3. The battery indicator lights will show charging progress.

7. MAINTENANCE

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

- **Storage:** Store the unit in a cool, dry place, away from direct sunlight and corrosive materials.
- **Charging Frequency:** If the unit is not used for extended periods, recharge it every 3-6 months to maintain battery health.
- **Cleaning:** Wipe the exterior of the unit with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners. Ensure all ports are free of dust and debris.
- **Temperature:** Avoid operating or storing the unit in extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your power station, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is depleted.	Recharge the power station fully.
Devices not charging via AC/USB/DC.	Device power consumption exceeds unit's output. Loose connection. Unit is off.	Check device wattage. Disconnect and reconnect the device. Ensure the power station is on.
Unit shuts down unexpectedly.	Overload protection activated. Over-temperature protection activated.	Disconnect high-power devices. Allow unit to cool down in a well-ventilated area. Restart the unit.
Charging is slow or not working.	Charger not properly connected. Faulty charger or cable. Solar panel not receiving enough sunlight.	Ensure all connections are secure. Try a different charger/cable if available. Reposition solar panel for optimal sunlight.

If the problem persists after trying these solutions, please contact BESTEK customer support.

9. SPECIFICATIONS

Feature	Specification
Model	MRP450A-1511
Battery Type	Lithium-ion
Battery Capacity	167 Wh (45000 mAh / 3.7 V)
DC Input	12-24V 2A
AC Output	100-120V AC, 60Hz, 150W (Pure Sine Wave)
USB Output	3 x 5V/4.2A (0-2.4A per port, 4.2A max total)
Cigarette Lighter Output	9-12V DC, 150W
Protections	Over-voltage, Over-charge, Over-discharge, Over-temperature, Overload, Short-circuit
Dimensions (L x W x H)	24.3 x 18.9 x 4.3 cm (9.57 x 7.44 x 1.69 inches)
Weight	2.57 kg (5.67 lbs)

10. WARRANTY AND SUPPORT

BESTEK provides an **18-month warranty** for this Portable Power Station from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use.

For technical support, warranty claims, or any questions regarding your product, please contact BESTEK customer service. Our team is available 24 hours a day, 7 days a week to assist you.

Please refer to the service card included in your package for specific contact details or visit the official BESTEK website for more information.