

Baseus BPE42B

Baseus Portable Power Station ioTa 420W User Manual

Model: BPE42B

1. PRODUCT OVERVIEW

The Baseus ioTa 420W Portable Power Station is a versatile and powerful energy solution designed for various applications, including outdoor camping, RVs, CPAP devices, and home emergencies. It features a 288Wh LiFePO4 battery with a 90000mAh capacity and delivers a maximum AC output of 420W. This unit supports 140W PD3.1 fast charging and offers multiple output ports for diverse device compatibility.

Key Features:

- 90000mAh capacity, 420W maximum AC output.
- 140W PD3.1 ultra-fast charging for rapid device and power station recharging.
- 8 output ports including 2 AC outlets, 2 DC outlets, 2 USB-C ports, and 2 USB-A ports.
- Lightweight and portable design with a retractable carrying handle.
- Equipped with a premium 288Wh LiFePO4 battery pack for safety and longevity.
- Integrated LED light for illumination and emergency signaling.
- App monitoring for real-time status updates and remote control.

What's in the Box:

- Baseus ioTa 420W Portable Power Station
- 240W PD USB-C to C fast charging cable
- 5521 solar connect cable
- Carrying bag
- User manual

Powerful & Versatile

90000mAh, 420W Maximum AC Output



Coffee Maker

2.2 Hrs



Laptop

4 Times



Mini Fridge

4 Hrs



Drone

5 Times



CPAP

6 Hrs



Image: The Baseus ioTa 420W Portable Power Station, showcasing its compact design and various ports.

Video: An official overview of the Baseus ioTa Series 420W Portable Power Station, highlighting its design and key features.

2. SETUP AND INITIAL USE

2.1 Powering On/Off

To power on the device, press and hold the main power button located on the front panel for approximately 2 seconds until the display illuminates. To power off, press and hold the same button for

2 seconds until the display turns off. This two-second press mechanism prevents accidental power cycles.

2.2 Activating AC Outlets

The AC outlets on the side of the unit are not active by default. To enable them, press and hold the dedicated AC power button (located near the AC outlets) for 2 seconds. The indicator light next to the button will illuminate when the AC outlets are active. To deactivate, press and hold the button again.

2.3 Using the LED Light

The integrated LED light can be activated by pressing and holding its dedicated button for 2 seconds. Subsequent short presses will cycle through different modes: solid light, SOS, and flashing. Press and hold the button again to turn off the light.

Fast-Charge Your Device Like No Others

Supports bidirectional Type-C 140W PD3.1 fast charging



MacBook Pro 16" From 0%-50%



Image: The Baseus ioTa 420W Portable Power Station with its bright LED light illuminated, suitable for

3. OPERATING THE POWER STATION

3.1 Charging Your Devices

The power station offers multiple ways to charge your electronic devices:

- **AC Outlets:** Use the two 110V AC outlets for devices requiring standard wall power, up to a combined 420W continuous output (840W peak).
- **USB-C Ports:** Two USB-C ports are available. One supports 140W PD3.1 bidirectional charging (input/output), ideal for laptops like MacBook Pro. The other USB-C port provides up to 30W output.
- **USB-A Ports:** Two USB-A ports are available, supporting Quick Charge 3.0 for fast charging compatible devices.
- **DC Outlets:** Two 12V DC outlets are provided for powering compatible DC devices, such as portable fridges or CPAP machines.

The built-in display provides real-time information on battery level, power input/output, temperature, and remaining run/charge time. The Baseus Power Split technology intelligently adjusts power distribution across multiple outputs.

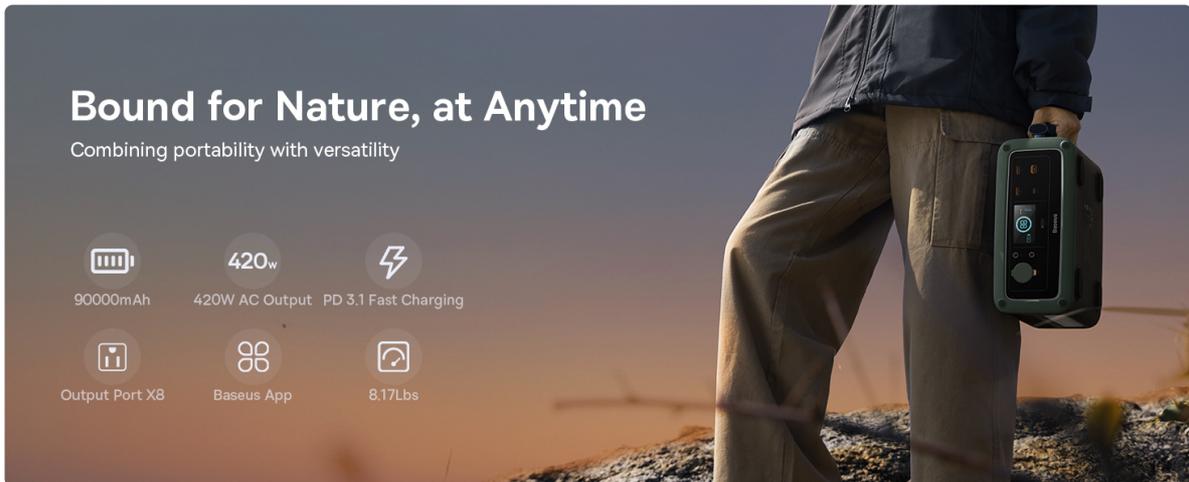


Image: The Baseus ioTa 420W Portable Power Station simultaneously powering a coffee maker, laptop, mini fridge, drone, and CPAP machine.

Video: An in-depth review demonstrating the various ports and their functionalities, including charging multiple devices simultaneously.

3.2 App Control

The Baseus app allows you to monitor the power station's status remotely, including battery level, power consumption, temperature, and remaining time. You can also control certain functions like the LED light modes and brightness directly from your smartphone via Bluetooth connectivity.

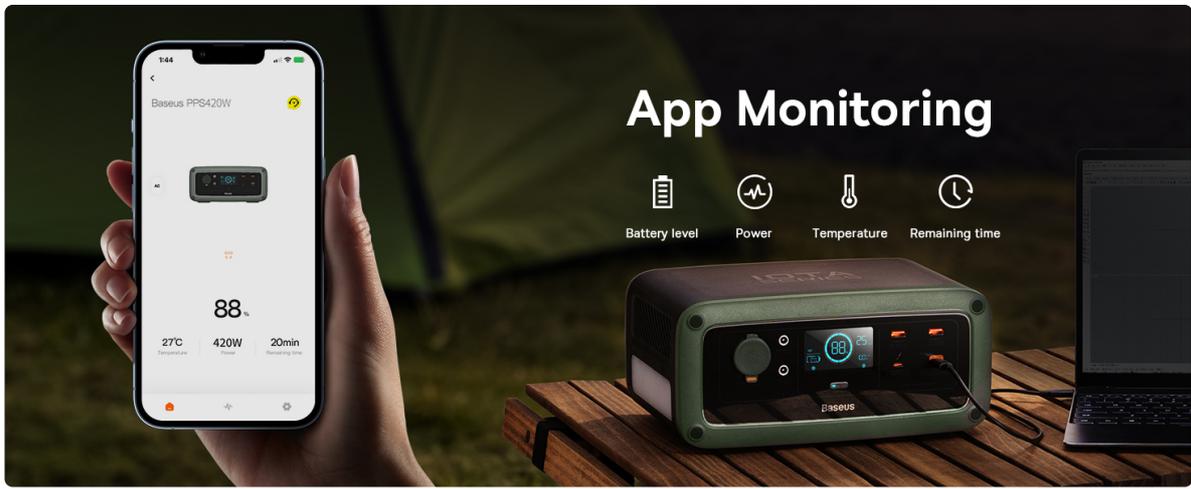


Image: A smartphone displaying the Baseus app interface, showing real-time battery level, power, temperature, and remaining time for the ioTa 420W Power Station.

Video: A demonstration of the Baseus app controlling the power station while powering a standing desk, showcasing remote monitoring and control.

4. RECHARGING THE POWER STATION

The Baseus ioTa 420W can be recharged using multiple methods:

- **USB-C PD3.1 Fast Charging:** The primary USB-C port supports 140W input, allowing the power station to be fully recharged in approximately 2.6 hours from 0%.
- **Solar Charging:** Connect a compatible 100W solar panel (not included) via the provided 5521 solar connect cable to the DC input port. Charging time is approximately 3.5 hours, depending on lighting conditions.
- **Vehicle Charging:** Recharge the power station using a 13.5V 8A auxiliary power input (car charger not included). This method can fully recharge the unit in approximately 2.6 to 3.0 hours, depending on the wattage of the car charger.



Making Recharging Convenient as Ever

Fully recharged in 2.6 Hours

 140W Type-C Input

Image: The Baseus ioTa 420W Portable Power Station being fast-charged via its 140W USB-C PD3.1 port, reaching 50% in under 30 minutes.



Let the Sun Power Your Device

Solar Charging:
≈3.5 Hours
(Depending on the lighting conditions)

 100W Solar Panel Input

Image: The Baseus ioTa 420W Portable Power Station connected to a solar panel for recharging, illustrating its solar generator capability.



Be on Your Way

100W Vehicle Charging:
≈3.0 Hours

140W Vehicle Charging:
≈2.6 Hours

 13.5V 8A Auxiliary Power Input
(auxiliary power not included)

Image: The Baseus ioTa 420W Portable Power Station being recharged in a vehicle via its car charger input, offering convenient charging on the go.

Video: A full review of the Baseus 420W Power Station, including demonstrations of its various charging methods and speeds.

5. MAINTENANCE

To ensure optimal performance and longevity of your Baseus ioTa 420W Portable Power Station, follow these maintenance guidelines:

- Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid covering the ventilation fans to prevent overheating.
- Recharge the unit at least once every 3-6 months to maintain battery health, even if not in use.
- Clean the exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.

6. TROUBLESHOOTING

The power station is equipped with multiple protection mechanisms. If an issue occurs, the display may show an error icon or the unit may shut down automatically. Refer to the detailed user manual for specific error codes and recovery methods.

Common Issues:

- **Overload Protection:** If the power consumption of connected devices exceeds 420W (continuous) or 840W (peak), the unit will automatically shut down to prevent damage. Disconnect high-power devices and restart the unit.
- **Overheating:** If the internal temperature exceeds safe limits, the unit may reduce output or shut down. Ensure ventilation fans are not blocked.
- **Charging Issues:** If the unit is not charging as expected, verify that the charging cable and adapter are functioning correctly and meet the required wattage (e.g., 140W for USB-C PD3.1).

Video: A user demonstrating the Baseus 420W Power Station in a mobile cart, including an overload test with a hair dryer, showing the unit's safety shutdown feature.

7. SPECIFICATIONS

Feature	Specification
Model Number	BPE42B
Battery Capacity	288Wh / 90000mAh LiFePO4
AC Output	420W (Continuous) / 840W (Peak)
USB-C1 Input/Output	140W Max (PD3.1)
USB-C2 Output	30W Max
USB-A1/USB-A2 Output	12V/2.5A (QC3.0 Compatible)
DC Input (Solar/Car)	100W Max (Solar), 13.5V 8A (Car)
DC Output	12V Max
Product Dimensions	10.24 x 6.69 x 4.64 inches
Item Weight	8 pounds
Special Features	LED Light, App Control, Portable Suitcase-Style Design

8. SAFETY INFORMATION

The Baseus ioTa 420W Portable Power Station is designed with multiple safety features to protect both the device and connected electronics. These include over-charge, over-voltage, over-heating, over-current, over-discharge, and short-circuit protection. The LiFePO4 battery pack is known for its stability and long cycle life.



Securing the Future

Precisely monitors the power station's operation status.

Image: An illustration detailing the 8 layers of safety protection built into the Baseus ioTa 420W Portable Power Station, including over-charge, over-voltage, and short-circuit protection.

Important: Do not cover the ventilation grilles on the unit during operation to ensure proper heat dissipation and prevent overheating. Always operate the power station in a well-ventilated area.

9. WARRANTY AND SUPPORT

The Baseus ioTa 420W Portable Power Station comes with a worry-free 2-year warranty. For customer service, technical support, or warranty claims, please refer to the contact information provided in the user manual included with your product or visit the official Baseus website.