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Dabbsson DBS2300 Plus (DBS2300-1)

Dabbsson Portable Power Station DBS2300 Plus User Manual

Model: DBS2300 Plus (DBS2300-1)

1. Introduction

The Dabbsson Portable Power Station DBS2300 Plus is a versatile and robust power solution designed for various applications, including camping, home backup, emergency situations, and RV use. It features a high-capacity LiFePO4 battery, multiple output ports, and efficient charging capabilities to power a wide range of appliances.



Figure 1.1: Dabbsson Portable Power Station DBS2300 Plus. This image shows the front and side view of the power station, highlighting its various ports and display screen.

2. Safety Instructions

Read all safety instructions carefully before operating the Dabbsson DBS2300 Plus. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Do not** disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- **Do not** place the unit near heat sources, in direct sunlight, or in high-temperature environments.
- **Do not** use the unit in wet conditions or immerse it in water.
- Ensure proper ventilation during operation to prevent overheating.
- Keep the unit away from children and pets.
- Use only Dabbsson-approved accessories and charging cables.
- The unit features an UL94 V0 outer shell and an 8-layer Smart Battery Protection System for enhanced safety, including over-temperature, over-voltage, low-temperature, low-voltage, short-circuit, battery failure, overload, and overcurrent protection.



Figure 2.1: DBS New Tech BMS and AI System. This diagram illustrates the various protection mechanisms integrated into the power station's battery management system, ensuring safe operation.

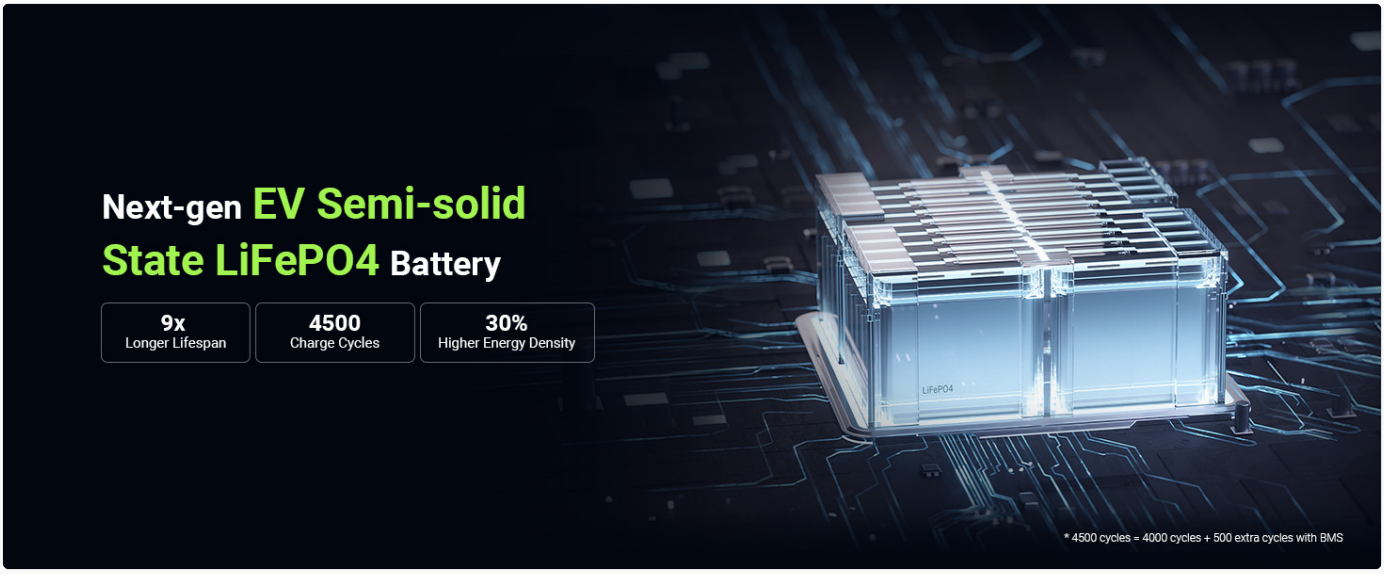


Figure 2.2: Rigorously Tested, Reliably Trusted. This image highlights the safety certifications and tests, including Nail Pen Test, FCC/CE EMC Class B, and UL94 V0 Rating, demonstrating the product's robust safety standards.

3. Package Contents

Verify that all items are present in the package upon unboxing:

- Dabbsson DBS2300 Plus Portable Power Station
- 1 x 1800W AC Charging Cable
- 1 x Solar Charging Cable
- 1 x Car Charging Cable
- User Manual (this document)

4. Product Overview

4.1 Key Features

- **High Power Output:** 2200W total AC output (4400W surge), expandable to 4000W when paralleled. Powers up to 99% of home appliances and tools.
- **Advanced Battery Technology:** Utilizes EV semi-solid state LiFePO4 batteries, offering 4500+ charge cycles and a lifespan of over 15 years.
- **Expandable Capacity:** Link two extra batteries to achieve a massive 8330Wh capacity. Parallel connect two DBS2300 Plus units for increased power.
- **Multiple Charging Options:** Supports 1800W Max AC input (98% charge in 1.5 hours), solar input (up to 800W), and vehicle charging.
- **Versatile Outputs:** Includes 4 AC ports, 1 parallel port, USB-C, USB-A, DC5521, Car charge, and Anderson connectors.
- **Smart Control:** Monitor and manage the power station via a dedicated mobile application.

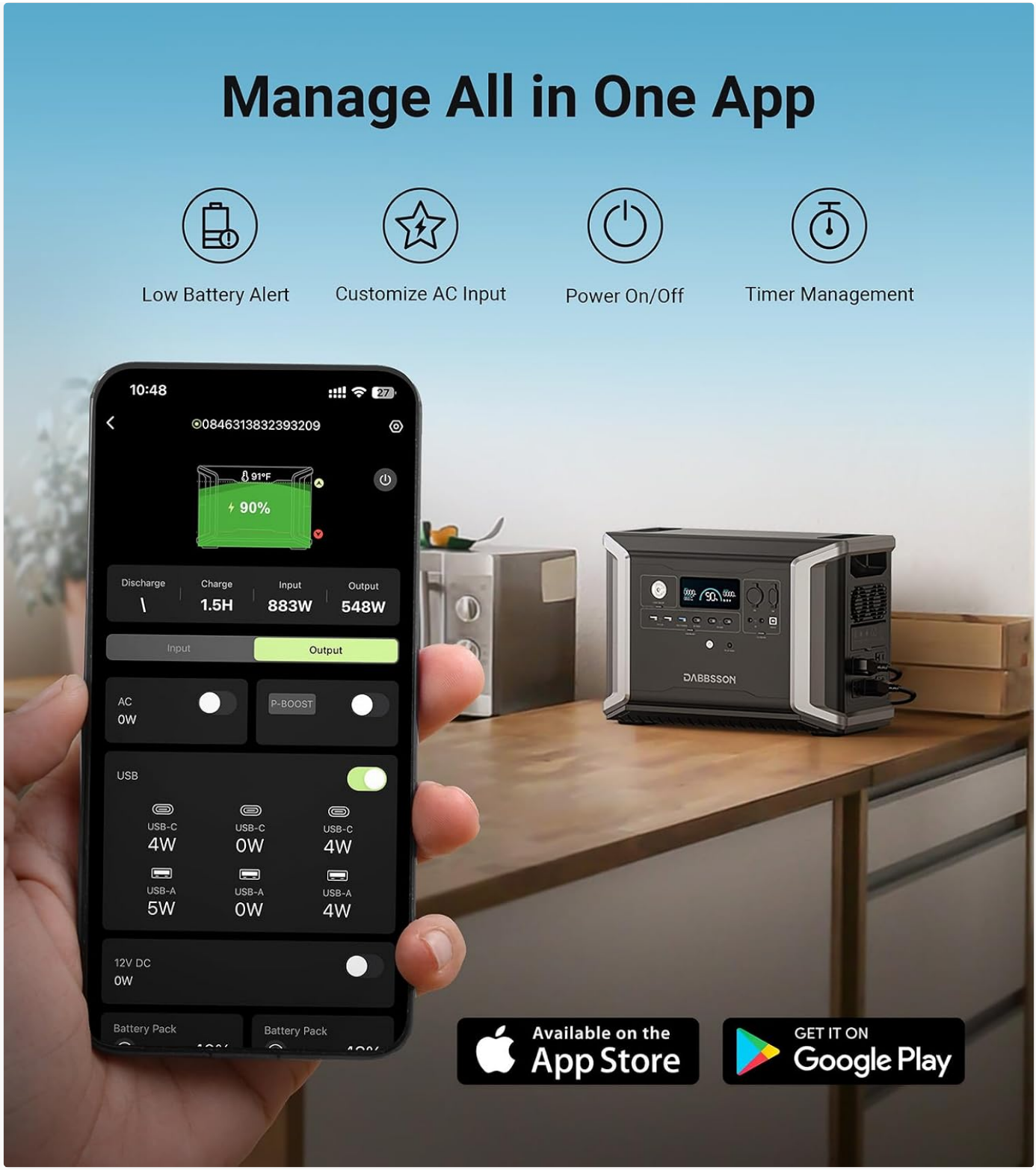


Figure 4.1: More Than One Way to Charge. This image illustrates the various charging methods available for the Dabbsson power station, including solar, AC, and combined charging, with their respective charging times.



Figure 4.2: Need More Capacity? No Problem! This image demonstrates how multiple Dabbsson units can be combined to significantly increase the total power capacity, showing configurations for 8330Wh and 16660Wh.

4.2 Ports and Indicators



Figure 4.3: 15 Ports Power All of Your Appliances. This diagram provides a detailed view of all input and output ports on the Dabbsson power station, including AC, USB-A, USB-C, Car Power, Anderson, and DC5521 outputs, along with AC and Solar/Car charging inputs.

The front panel features a display screen showing battery level, input/output wattage, and remaining run/charge time. Various buttons control specific outputs and functions.

5. Setup

5.1 Initial Charging

Before first use, fully charge the DBS2300 Plus. Connect the provided AC charging cable to the AC input port on the power station and plug it into a standard wall outlet. The display will indicate charging status. A full charge takes approximately 1.5 hours via AC input.



Figure 5.1: Recharges to 100% in just 2 hours. This image shows the power station being charged via an AC wall outlet, emphasizing its fast charging capability.

5.2 Mobile Application Setup

The Dabbsson DBS2300 Plus can be controlled and monitored via a mobile application. Download the official Dabbsson app from the App Store (iOS) or Google Play Store (Android).

1. Download and install the Dabbsson app on your smartphone.
2. Ensure Bluetooth and Wi-Fi are enabled on your phone.
3. Open the app and follow the on-screen instructions to pair with your DBS2300 Plus.

4. Once connected, you can monitor battery status, control outputs, and manage settings remotely.



Figure 5.2: Manage All in One App. This image displays a smartphone screen showing the Dabbsson app interface, demonstrating its ability to monitor and control the power station's functions.

6. Operation

6.1 Turning On/Off

Press and hold the main power button for a few seconds to turn the unit on or off. The display screen will illuminate upon

activation.

6.2 Using AC Outputs

Press the AC power button to enable the AC outlets. Plug your appliances into the 120V AC ports. The display will show the real-time power consumption. Ensure the total wattage of connected devices does not exceed 2200W (or 4400W surge, 4000W when paralleled).

6.3 Using DC and USB Outputs

Press the DC or USB power buttons to activate the respective ports. Connect your devices to the USB-A, USB-C, DC5521, Car charge, or Anderson outputs. These are suitable for charging smartphones, laptops, and other low-power devices.

6.4 Charging the Power Station

The DBS2300 Plus can be recharged using multiple methods:

- **AC Charging:** Connect the AC charging cable to a wall outlet. Max 1800W input.
- **Solar Charging:** Connect compatible solar panels (up to 800W) using the provided solar charging cable. Ensure correct polarity.
- **Car Charging:** Use the car charging cable to recharge from your vehicle's 12V cigarette lighter port.

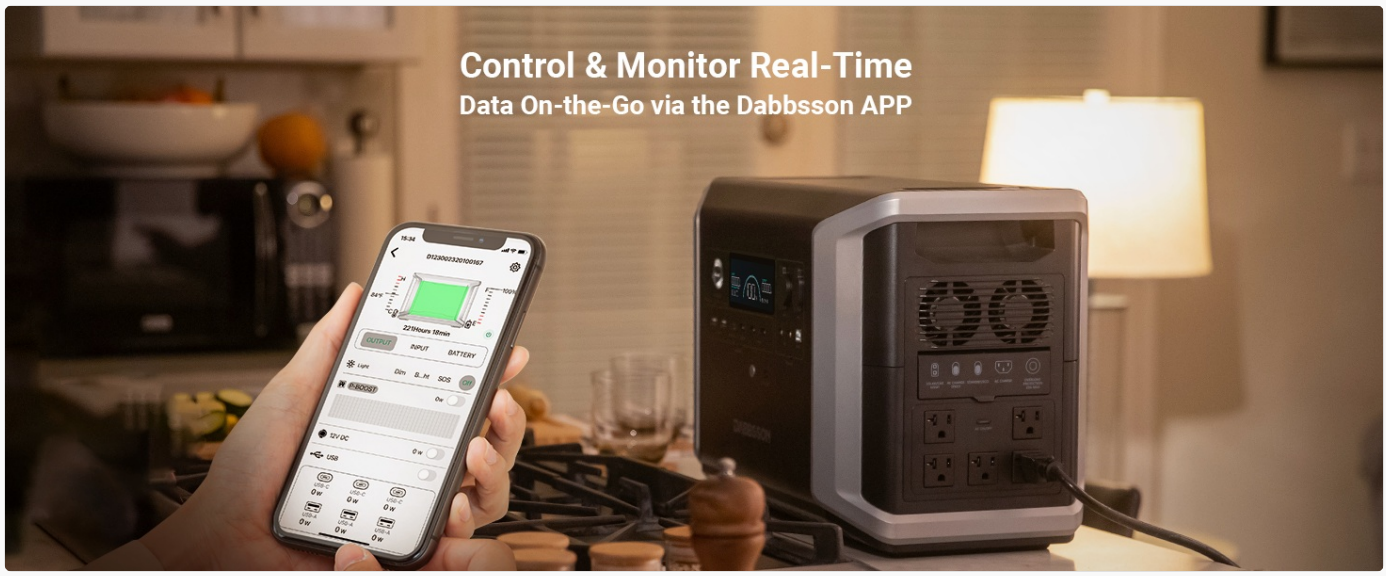


Figure 6.1: Multi-Source Charging. This graphic illustrates the flexibility of charging the power station from various sources: AC wall outlet, solar panels, a power generator, or a car's charging port.

6.5 Parallel Connection

For increased capacity and output, two DBS2300 Plus units can be connected in parallel. Refer to the specific instructions in the parallel connection kit manual for detailed steps. This configuration can provide up to 4000W of continuous power and significantly extend runtime.

6.6 Emergency Power Supply (EPS) Function

The DBS2300 Plus features an EPS function with a switching time of less than 15ms. When connected to an AC input and an appliance, it can automatically switch to battery power in case of a power outage, providing seamless power to connected devices like fish tanks, laptops, or refrigerators.

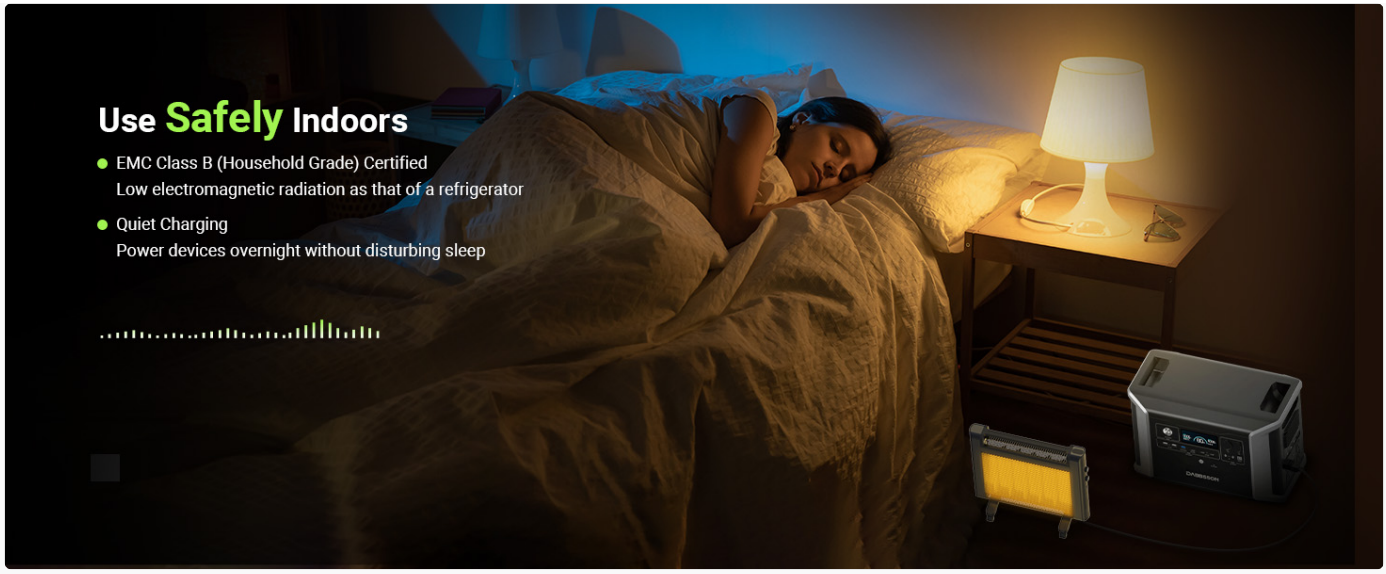


Figure 6.2: EPS <15MS Auto-switch. This image demonstrates the power station's Emergency Power Supply (EPS) capability, showing it providing continuous power to various household items like a fish tank, laptop, and refrigerator during a power interruption.

7. Maintenance

7.1 Battery Care

- For optimal battery life, avoid fully discharging the unit frequently.
- Recharge the unit at least once every 3-6 months, even if not in use, to maintain battery health.
- The LiFePO4 battery is designed for over 4500 cycles before reaching 80% capacity, providing a long operational lifespan.

7.2 Cleaning and Storage

- Clean the unit with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- Store the power station in a cool, dry place, away from direct sunlight and extreme temperatures.
- Ensure the unit is turned off before storing.

8. Troubleshooting

If you encounter issues with your Dabbsson DBS2300 Plus, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	Battery is fully discharged	Connect to AC power and charge for at least 30 minutes.
No AC output	AC output not enabled or overloaded	Press the AC power button. Reduce connected load if overloaded.

Problem	Possible Cause	Solution
Slow charging	Using low-power charging source (e.g., car charger) or high ambient temperature	Use AC wall charger for fastest charging. Ensure unit is in a well-ventilated area.
App connection issues	Bluetooth/Wi-Fi off, app outdated, or unit not in pairing mode	Ensure Bluetooth/Wi-Fi are on. Update app. Restart unit and try pairing again.

If the problem persists, please contact Dabbsson customer service for assistance.

9. Specifications

Feature	Specification
Model Name	DBS2300Plus (DBS2300-1)
Battery Type	EV Semi-solid State LiFePO4
Capacity	2300 Watt-hours (Wh)
AC Output	2200W (Pure Sine Wave), 4400W Surge, 4000W when paralleled
AC Input (Max)	1800W
Solar Input (Max)	800W
Charging Time (AC)	Approx. 1.5 hours (to 98%)
Cycle Life	4500+ cycles to 80% capacity
Dimensions (L x W x H)	17.01" x 10" x 11.95"
Weight	65.2 pounds
Total Power Outlets	14
Safety Certifications	FCC/CE EMC Class B, UL94 V0
UPC	850046840234



Figure 9.1: Dabbsson Portable Power Station Dimensions. This image provides a visual representation of the power station's length, width, and height in inches.

10. Warranty and Support

The Dabbsson DBS2300 Plus comes with a**3+2 year warranty**, providing comprehensive coverage for your product. This includes a standard 3-year warranty, with an additional 2 years upon product registration or specific conditions.
For technical support, warranty claims, or any inquiries, please contact Dabbsson customer service. Our friendly local customer service team is available to assist you.
You can also visit the official Dabbsson Store for more information and resources:Dabbsson Store on Amazon

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