

Dabbsson DBS3500

Dabbsson DBS3500 Portable Power Station and DBS5300B Extra Battery User Manual

Model: DBS3500, DBS5300B

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your Dabbsson DBS3500 Portable Power Station and the DBS5300B Extra Battery. Please read this manual thoroughly before use and retain it for future reference.

The Dabbsson DBS3500 is a high-capacity portable power station designed to provide reliable power for various applications, including outdoor camping, home backup, and emergency situations. It features a robust AC output, advanced battery technology, and expandable capacity with the DBS5300B Extra Battery.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in fire, electrical shock, or other injury or damage.

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from heat sources, direct sunlight, and flammable materials.
- Ensure proper ventilation during use and charging.
- Do not expose the unit to water or excessive humidity.
- Use only Dabbsson-approved accessories and charging cables.
- Keep out of reach of children and pets.
- In case of fire, use a dry powder fire extinguisher.

The DBS3500 utilizes a Semi-Solid LiFePO₄ battery, which offers enhanced safety compared to traditional lithium batteries. It includes an 8-layer protection system to safeguard against heat, low-temperature, overload, and

overdischarge risks.

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Video: DBS3500 Nail Penetration Test. This video demonstrates the safety of the Dabbsson Semi-Solid LiFePO4 battery under extreme conditions, showing no explosion or fire during a nail penetration test, unlike other battery types.

3. PRODUCT OVERVIEW

3.1. Components and Features

The Dabbsson DBS3500 Portable Power Station is designed for versatility and durability. Key features include:

- **Massive Power Output:** 3600W AC output, expandable to 7000W by combining two DBS3500 units.
- **Semi-Solid LiFePO4 Battery:** Offers efficient energy storage, high safety, and a long lifespan of up to 4500 charge cycles.
- **Scalable Capacity:** Expandable from 3430Wh up to 28,156Wh with DBS5300B Extra Battery packs.
- **Advanced BMS:** Built-in Battery Management System with 8-layer protection.
- **Multiple Charging Methods:** AC Wall Outlet, Solar, and AC+Solar for rapid charging.
- **Portability:** Equipped with a horizontal ergonomic pull rod and dual wheeling system for easy transport.



Image: Front view of the Dabbsson DBS3500 Portable Power Station, showcasing its display and main design.

First-in-Class Battery Technology



Image: Rear view of the Dabbsson DBS3500, highlighting the various input and output ports.

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Video: Dabbsson DBS3500 Portable Power Station overview. This video provides a general introduction to the power station's design and features.

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Video: DBS3500 Portable Power Station Product Description. This video details the various aspects and benefits of the power station.

4. SETUP

4.1. Unpacking

Carefully remove the power station and all accessories from the packaging. Verify that all components listed in the packing list are present and undamaged. Retain packaging for future transport or storage.

4.2. Initial Charge

Before first use, fully charge the DBS3500 using the provided AC charging cable. Connect the AC charging cable to the AC input port on the unit and then to a wall outlet. The display will indicate charging status. For optimal battery health, it is recommended to fully charge the unit upon receipt.

4.3. Connecting Extra Batteries (DBS5300B)

To expand capacity, connect DBS5300B Extra Batteries to the DBS3500 using the designated battery ports. Ensure the power station is off before connecting or disconnecting extra batteries. Refer to the DBS5300B manual for specific connection instructions.



Image: Illustration showing the Dabbsson DBS3500 stacked with DBS5300B extra batteries, demonstrating expandable capacity.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

Press and hold the main power button to turn the unit on or off. The display will illuminate upon power-on.

5.2. Connecting Devices

Connect your devices to the appropriate output ports (AC, USB-A, USB-C, DC). Ensure the total wattage of connected devices does not exceed the power station's maximum output capacity.

5.3. Charging the Power Station

The DBS3500 supports multiple charging methods:

- **AC Wall Outlet:** Connect the AC charging cable to a standard wall outlet.
- **Solar Charging:** Connect compatible solar panels to the solar input port.
- **Car Charging:** Use a car charger adapter (sold separately) to charge from a vehicle's 12V outlet.



**EV Semi-Solid State
LiFePO4 Battery**

15+Years Lifespan 4500+ Charge Circles

3.43k-28kWh
Expandable Capacity

Easy Energy Management
on One App

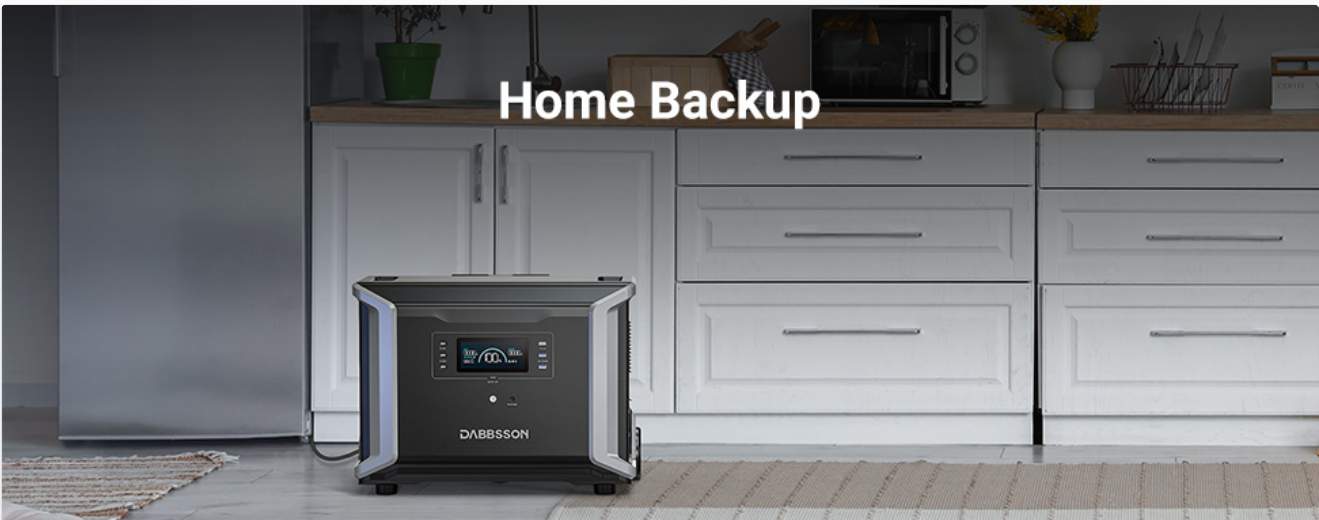
120V-240V Power System
3600W-7000W AC Output

2400W Solar Charge to
100% in **2 Hrs**

Image: An illustration detailing the various charging methods for the Dabbsson DBS3500, including AC wall outlet, solar, and combined AC+solar charging.

5.4. Monitoring and App Control

The integrated display provides real-time information on input/output wattage, battery level, and remaining runtime. For advanced control and monitoring, download the Dabbsson mobile application. The app allows for energy allocation, status monitoring, output/input customization, and timer management.



Lights
(10W)
291H



Air Conditioner
(1800W)
1.6H



Refrigerator
(120W)
24-48H



TV
(100W)
29H



Microwave
(1300W)
2.2H

Image: A visual representation of the Dabbsson DBS3500 being controlled and monitored via its dedicated mobile application.

6. MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use liquid cleaners.
- **Storage:** Store the power station in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge the unit to approximately 50-80% every 3-6 months to maintain battery health.
- **Battery Care:** Avoid fully discharging the battery frequently. The unit is designed for a long lifespan, but proper charging habits extend its durability.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on	Battery is completely discharged.	Connect to AC power and charge for at least 30 minutes.
AC output not working	AC output is not enabled or overloaded.	Press the AC output button to enable. Reduce connected load if overloaded.
Slow charging	Charging speed setting is low or solar input is insufficient.	Adjust AC charge speed switch. Ensure solar panels are in direct sunlight and correctly connected.
Unusual noise during operation	Cooling fans operating under heavy load.	This is normal. Ensure adequate ventilation. If noise is excessive or persistent, contact support.

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Video: DBS3500 Low Noise Impact. This video demonstrates the quiet operation of the Dabbsson DBS3500, even under load, highlighting its suitability for indoor use.

8. SPECIFICATIONS

Feature	Specification
Brand	Dabbsson
Model Name	DBS3500
Wattage (Output)	3600 Watts (expandable to 7000W)
Fuel Type	Electric
Power Source	Battery Powered, Solar Powered
Special Feature	Portable
Included Components	Battery, Charging Cable
Color	Black
Battery Type	Semi-Solid LiFePO4

Feature	Specification
Charge Cycles	Up to 4500 cycles (to 80% capacity)
Expandable Capacity	From 3430Wh to 28,156Wh with DBS5300B Extra Batteries
UPC	850046840951

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Dabbsson website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

Online Resources:

- Visit the [Dabbsson Store on Amazon](#) for product information and accessories.