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› Dabbsson DBS2100 Pro Solar Generator and 210W Solar Panel User Manual

## Dabbsson DBS2100Pro

# Dabbsson DBS2100 Pro Solar Generator and 210W Solar Panel User Manual

Model: DBS2100Pro

## 1. PRODUCT OVERVIEW

The Dabbsson DBS2100 Pro is a portable power station designed to provide reliable power for various applications, from home backup to outdoor activities. It features a 2150Wh capacity, 2400W rated output (expandable to 4600W), and utilizes a durable Semi-Solid LiFePO4 battery. This package includes one DBS2100 Pro unit and one 210W solar panel for efficient recharging.



Image 1.1: Dabbsson DBS2100 Pro Solar Generator with included 210W Solar Panel. The main unit is dark grey with light grey accents, featuring multiple output ports and a digital display. The solar panel is foldable and designed for portability.

## 2. WHAT'S IN THE BOX

- DBS2100 Pro Portable Power Station x1
- DBS210w Solar Panel x1

- AC Charging Cable x1
- Solar Charging Cable x1
- Car Charging Cable x1
- User Manual x1

## Absolute Safety

Built-in battery management system (BMS) offers multi-layer comprehensive protection against overheat, low temperatures, overload, overdischarge, and leakage. Complete peace of mind in all situations.

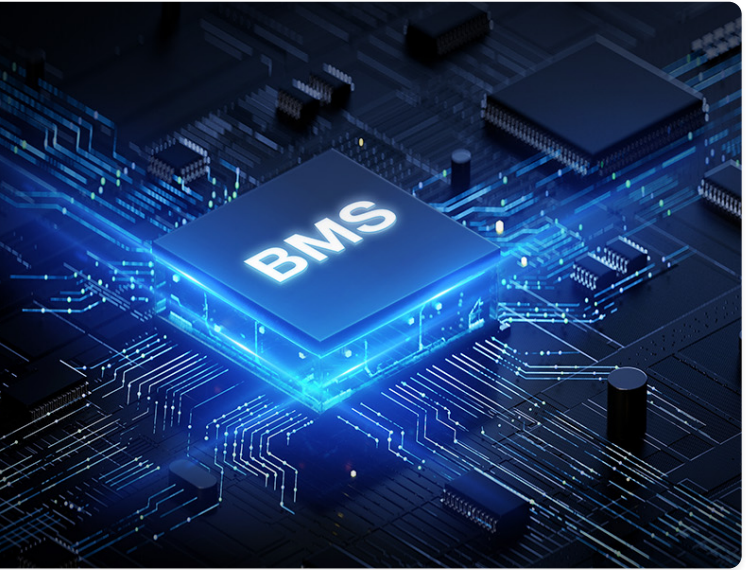


Image 2.1: Visual representation of the Dabbsson DBS2100 Pro package contents, including the power station, solar panel, and various charging cables.

## 3. SETUP AND INITIAL CHARGING

### 3.1 Unboxing and Inspection

Carefully remove all components from the packaging. Inspect the power station and accessories for any signs of damage. If any damage is found, contact customer support immediately.

### 3.2 Initial AC Charging

Before first use, fully charge the DBS2100 Pro using the AC charging cable. Connect the AC charging cable to the AC input port on the power station and then to a standard wall outlet. The digital display will show the charging status. The unit supports 1800W AC input, allowing it to reach 80% charge in approximately 1.5 hours.

## Keep the Whole House Up and Running

With 2400W massive output, you can always keep the entire household up and running during an unexpected outage. From small light bulbs to heavy-duty appliances.



\*3600W Huge Output with P-Boost mode in the app. \*Combine two 2100Pro power stations for 4600W higher output.

Image 3.1: The Dabbsson DBS2100 Pro connected to a wall outlet for AC charging, illustrating the rapid charging capability.

### 3.3 Solar Charging (Optional)

For solar charging, unfold the 210W solar panel and position it in direct sunlight. Connect the solar charging cable to the solar panel and then to the solar input port on the power station. The unit supports up to 1200W solar input with MPPT technology, allowing a full charge in approximately 2.4 hours under ideal sunny conditions.



Image 3.2: The Dabbsson DBS2100 Pro connected to solar panels for charging, demonstrating its solar input capabilities.

## 4. OPERATING INSTRUCTIONS

### 4.1 Powering On/Off

Press and hold the main power button for 3 seconds to turn the unit on or off. The digital display will illuminate upon activation.

### 4.2 Connecting Devices

The DBS2100 Pro offers multiple output ports to power various devices:

- **AC Outlets (x3):** For standard household appliances (120V, 2400W Pure Sine Wave).
- **NEMA TT-30 (x1):** For RVs and heavy-duty appliances (20A Power-Boost 3600W).
- **USB-A Ports (x3):** 2x 18W, 1x 12W for smaller electronics.
- **USB-C Ports (x3):** 2x 100W, 1x 30W for fast charging compatible devices.
- **Car Power Outlet (x1):** 1x 126W 10A.
- **DC 5521 Ports (x2):** 2x 50.4W.

## Home Appliances

DBS2100 Pro x1

2150Wh



Mini Fridge (75W)

1.2 days



Microwave Oven (1000W)

2.15 hrs



Electric Kettle (1500W)

1.43 hrs



Smartphones (4000mAh)

141 charges



Laptops (75Wh)

28.6 charges



Image 4.1: A detailed diagram highlighting all available output ports on the Dabbsson DBS2100 Pro power station.

### 4.3 App Control and Time Management

The Dabbsson app allows for remote monitoring and control of your power station via Wi-Fi or Bluetooth. You can monitor power status, adjust charging speeds, and schedule off-peak charging to optimize energy usage and potentially save on electricity costs.

## Outdoor Activities

DBS2100 Pro x1 + DBS2100B x1

4300Wh



Camping LED Lights (75W)

57.3 hrs



Portable Fans (80W)

53.8 hrs



Bluetooth Speakers (20Wh)

215 charges



Cameras (5000mAh)

86 charges



Drones (4000mAh)

53.8 charges



Image 4.2: Screenshot of the Dabbsson mobile application interface, showing options for monitoring battery status, setting timers, and scheduling charging.

The app also enables P-Boost mode, which can increase the output wattage up to 3600W for demanding appliances.

## 5. CAPACITY EXPANSION

The DBS2100 Pro's capacity can be expanded from 2.1kWh up to 12.9kWh by connecting additional DBS2100 Pro power stations or DBS2100B battery packs (sold separately). This modular design allows you to scale your power needs for extended outages, RV trips, outdoor events, or even off-grid living scenarios.

## Workstation Tools

DBS2100 Pro x2 + DBS2100B x4

12900Wh



1HP Sump Pump (750W)

17.2 hrs



Angle Grinder (800W)

16.1 hrs



Power Tools (Drill) (700W)

18.4 hrs



Circular Saw (1400W)

9.2 hrs



Electric Lawn Mower (1500W)

8.6 hrs



Image 5.1: Illustration showing various configurations for expanding the Dabbsson DBS2100 Pro's capacity, from a single unit to multiple units with external battery packs.

## 6. SAFETY AND DURABILITY

The DBS2100 Pro is built with a Semi-Solid LiFePO4 battery, similar to those used in high-end electric vehicles, offering a lifespan of over 15 years (4500+ cycles to retain 80% capacity). It incorporates the DabShield protection system and has undergone 56 extreme environment tests to ensure durability and safety.



### A Clean Energy Future!

Harnessing technology for a safer, cleaner world. Since 2012, Dabbsson's mission has been to power a sustainable future with innovative solutions that protect our planet and ensure battery safety.



2.5M+  
Global Users



80+  
Patents



120+  
Media Recognition

Image 6.1: Diagram illustrating the long lifespan of the Semi-Solid LiFePO4 battery and various safety certifications and tests.

An integrated Battery Management System (BMS) provides multi-layer protection against overheating, low temperatures, overload, overdischarge, and leakage, ensuring safe operation in all situations.

The unit also features an Uninterrupted Power Supply (UPS) with a 15ms switching time, providing seamless power delivery for sensitive electronics and critical life support devices during outages.

# Power 13 Devices at Once

Charge Most of Your Home Appliances



Image 6.2: Visual demonstrating the 15ms EPS (Emergency Power Supply) feature, ensuring continuous power for devices like CPAP machines.

## 7. MAINTENANCE

- **Storage:** Store the power station in a cool, dry place away from direct sunlight and heat sources.
- **Charging:** For optimal battery health, fully charge the unit every 3-6 months if not in regular use.
- **Cleaning:** Use a dry, soft cloth to clean the exterior. Avoid using harsh chemicals or abrasive materials.
- **Ventilation:** Ensure the ventilation vents are clear of obstructions to prevent overheating.

## 8. TROUBLESHOOTING

- **Unit not powering on:** Ensure the battery is charged. If not, connect to an AC outlet for charging.
- **No output from ports:** Check if the specific output port (AC, USB, DC) is activated. Some ports require manual activation via a button or the app.
- **Overload protection activated:** If an overload occurs, the unit may shut down. Disconnect some devices and restart the power station.
- **App connectivity issues:** Ensure Wi-Fi or Bluetooth is enabled on your device and the power station. Try restarting both the app and the power station.

## 9. SPECIFICATIONS

| Feature                     | Value                  |
|-----------------------------|------------------------|
| Brand                       | Dabbsson               |
| Model Name                  | DBS2100Pro             |
| Battery Capacity            | 2150Wh                 |
| Rated Output Power          | 2400W (Pure Sine Wave) |
| Peak Output Power (P-Boost) | 3600W                  |

|                        |                                             |
|------------------------|---------------------------------------------|
| Expandable Capacity    | Up to 12.9kWh                               |
| Battery Type           | Semi-Solid LiFePO4                          |
| Battery Lifespan       | 4500+ cycles to 80% capacity                |
| AC Input               | 1800W Max                                   |
| Solar Input            | 1200W Max (MPPT)                            |
| UPS Switching Time     | 15ms                                        |
| Dimensions (L x W x H) | 17" x 10" x 11.9"                           |
| Weight                 | 54 lbs                                      |
| Total Power Outlets    | 13 (unit only), 17 (with expansion battery) |

## 10. WARRANTY AND SUPPORT

The Dabbsson DBS2100 Pro comes with a 5-year quality service warranty. For any inquiries or technical assistance, please contact Dabbsson customer support, available 24/7. Lifetime technical support is also provided.



Image 10.1: Illustration of the Dabbsson customer support team, emphasizing reliable warranty care and 24/7 expert support.

## 11. OFFICIAL PRODUCT VIDEOS

**DBS2100Pro Portable Power Station**

Your browser does not support the video tag.

Video 11.1: This video provides a quick overview of the Dabbsson DBS2100Pro Portable Power Station, showcasing its design and key features.

## AFERIY Portable Power Station AF-P210 2400Wh 2025

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*Video 11.2: This video demonstrates the portability and various charging methods of the AFERIY Portable Power Station AF-P210, highlighting its suitability for outdoor trips and emergencies.*

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### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

#### Name

Anonymous

#### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

#### 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.

Submit question