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> [Dabbsson DBS2100 Pro Solar Generator and DBS210S Solar Panels User Manual](#)

Dabbsson DBS2100Pro

Dabbsson DBS2100 Pro Solar Generator and DBS210S Solar Panels User Manual

Model: DBS2100Pro

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your Dabbsson DBS2100 Pro Solar Generator and DBS210S Solar Panels. Please read this manual thoroughly before using the product and retain it for future reference. The Dabbsson DBS2100 Pro is a high-capacity portable power station designed to provide reliable power for various applications, from home backup to outdoor activities, featuring a 2150Wh capacity and 2400W output, expandable up to 12.9kWh and 4600W with additional units.



Image 1.1: Dabbsson DBS2100 Pro Solar Generator with two DBS210S Solar Panels.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent injury or damage to the product:

- Do not disassemble, repair, or modify the unit.
- Avoid exposure to rain or moisture.
- Keep away from heat sources, open flames, and flammable materials.
- Ensure proper ventilation during use and charging.
- Store in a cool, dry place, away from direct sunlight.
- Keep out of reach of children and pets.
- Use only Dabbsson-approved accessories and charging cables.
- In case of fire, use a dry powder fire extinguisher. Water may cause electric shock.

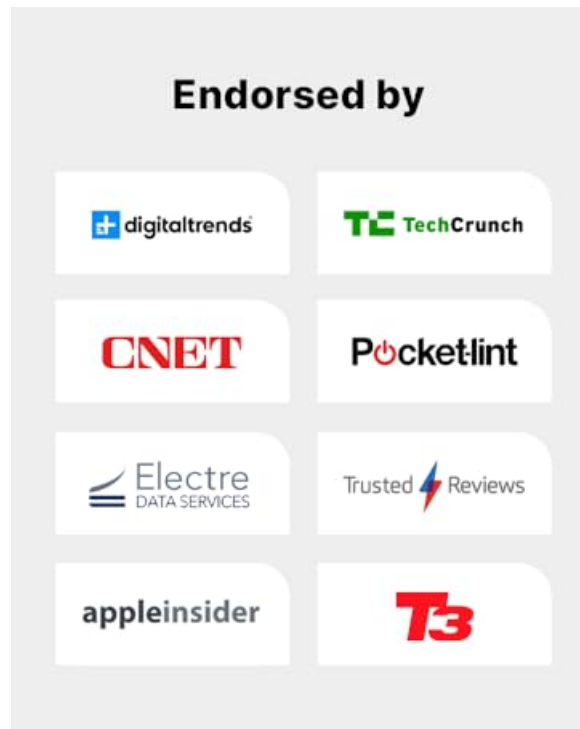


Image 2.1: Internal components and safety certifications of the Dabbsson DBS2100 Pro.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

1. DBS2100 Pro Portable Power Station x 1
2. DBS210S Solar Panel x 2
3. AC Charging Cable x 1
4. Solar Charging Cable x 1
5. Car Charging Cable x 1
6. User Manual x 1

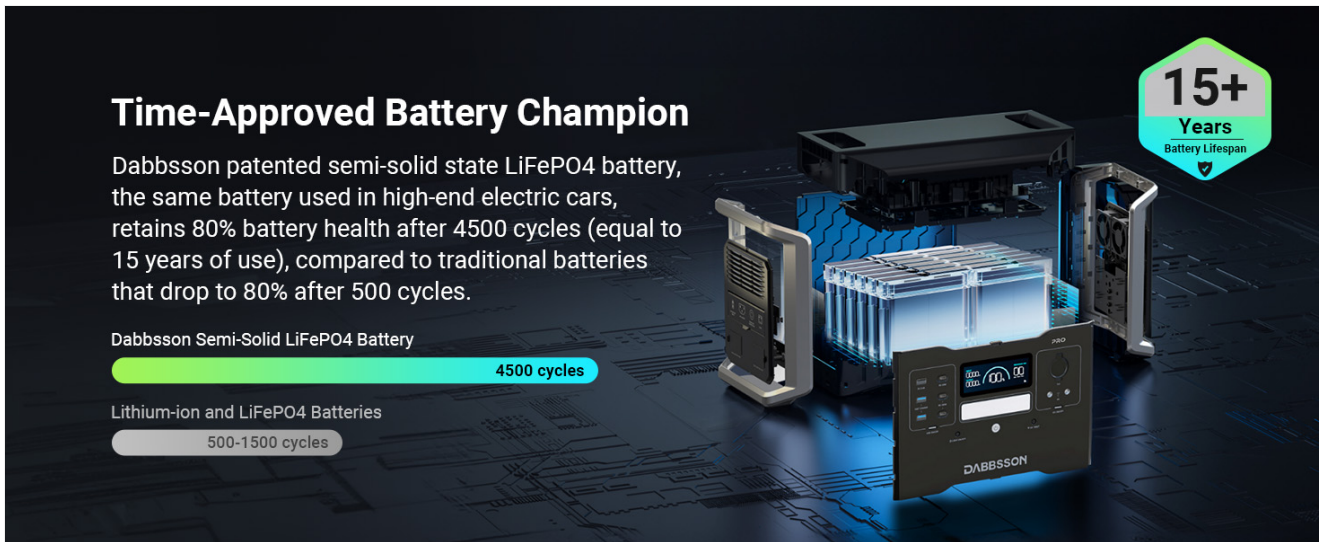


Image 3.1: Contents of the Dabbsson DBS2100 Pro package.

4. PRODUCT FEATURES

- **High Power Output:** Provides 2400W rated power, expandable up to 4600W with P-Boost mode and additional units.
- **Large Capacity:** 2150Wh battery capacity, expandable up to 12.9kWh with additional battery packs.
- **Long-Life Battery:** Equipped with Semi-Solid LiFePO4 battery cells, offering over 4500 charge cycles to 80% capacity, equivalent to approximately 15 years of use.
- **Multiple Output Ports:** Features AC outlets, NEMA TT-30, USB-C (100W), USB-A, Car Port, and DC5521 ports to power up to 17 devices simultaneously.
- **Fast Recharging:** Supports 1800W AC input for rapid charging (0-80% in 1.5 hours) and up to 1200W solar input (0-100% in 2.4 hours under ideal conditions).
- **Uninterrupted Power Supply (EPS):** Provides 15ms emergency power delivery for critical equipment.
- **Smart App Control:** Monitor, manage, and schedule charging/discharging via the Dabbsson mobile application.
- **Quiet Operation:** Designed for low noise levels, operating at under 30dB.

Keep the Whole House Up and Running

AC Outlet x3 NEMA TT 30 x1 USB-A x3 100W USB-C x2 30W USB-C x1 Car Port x1 DC 5521 x2



Image 4.1: The DBS2100 Pro powering multiple household appliances.

Break Free from Power Limit

Expand the power and capacity up to **4600W 12900Wh** by connecting additional DBS2100Pro power stations or DBS2100B battery packs as needed. (sold separately)



Image 4.2: Illustration of the expandable capacity of the DBS2100 Pro.

5. SETUP

5.1 Initial Inspection

Upon receiving your Dabbsson DBS2100 Pro, carefully unbox all components and inspect for any signs of damage. If any items are missing or damaged, contact customer support immediately.

5.2 Placement

Place the power station on a flat, stable surface in a well-ventilated area. Ensure there is adequate space around the unit for heat dissipation. Avoid placing it near water, heat sources, or in direct sunlight for prolonged periods.

5.3 First Use

It is recommended to fully charge the DBS2100 Pro before its first use. Connect the AC charging cable to the power station and then to a wall outlet. The display will indicate the charging status.

6. OPERATING INSTRUCTIONS

6.1 Charging the Power Station


The DBS2100 Pro can be charged via AC wall outlet, solar panels, or a car charger.

- **AC Charging:** Connect the AC charging cable to the AC input port on the power station and then to a standard wall outlet. The unit supports up to 1800W AC input.
- **Solar Charging:** Connect the DBS210S solar panels to the solar input port using the provided solar charging cable. Position the solar panels in direct sunlight for optimal charging efficiency. The unit supports up to 1200W solar input.
- **Car Charging:** Use the car charging cable to connect the power station to your vehicle's 12V auxiliary power outlet.

Faster Charging Solutions

0% to 80% within

1.5 Hours

 1800W AC INPUT



 1200W Solar INPUT + MPPT

0% to 100% in

2.4 Hours



*Based on using 1200W solar input in an ideal sunny environment.

Image 6.1: Charging methods for the DBS2100 Pro: AC wall charging and solar panel charging.

6.2 Discharging (Powering Devices)

To power your devices, ensure the power station is turned on. Press the respective output button (AC, USB, DC) for the port you wish to use. Connect your devices to the appropriate ports.

- **AC Outlets:** For household appliances requiring 120V AC power.
- **NEMA TT-30:** For RVs and other heavy-duty 30A appliances.

- **USB Ports:** For charging smartphones, tablets, laptops, and other USB-powered devices.
- **DC Ports:** For 12V DC devices.

Power Your Road Life with NEMA TT 30

Reliable Companion on the Road



NEMA TT 30 (20A)



Note: NEMA TT-30 Plug not included

Image 6.2: The DBS2100 Pro providing power for an RV using the NEMA TT-30 outlet.

6.3 App Control

Download the Dabbsson app from your device's app store to monitor and control your power station remotely. The app allows you to:

- View real-time battery status and power consumption.
- Turn output ports on/off.
- Set charging and discharging schedules to optimize energy usage and save on electricity bills during off-peak hours.
- Receive low battery reminders.



Image 6.3: Dabbsson mobile application interface for smart power management.

6.4 Expanding Capacity

The DBS2100 Pro's capacity can be expanded by connecting additional DBS2100 Pro units or DBS2100B battery packs (sold separately). Refer to the expansion kit's manual for detailed connection instructions.

7. MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the power station. Do not use liquid cleaners or immerse the unit in water.
- **Storage:** If storing for an extended period, charge the unit to approximately 50-80% every 3-6 months to prolong battery life. Store in a cool, dry environment.
- **Battery Care:** Avoid fully discharging the battery frequently. Optimal battery health is maintained by keeping the charge level between 20% and 80% during regular use.

8. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit not turning on	Low battery; Power button not pressed correctly	Charge the unit; Press and hold the power button for 3 seconds.
No output from ports	Output port not activated; Overload protection triggered	Press the corresponding output button; Reduce connected load and restart.
Slow solar charging	Insufficient sunlight; Panels not angled correctly; Dirty panels	Reposition panels for direct sunlight; Adjust angle; Clean panels.
App not connecting	Bluetooth/Wi-Fi off; App not updated; Unit too far	Ensure Bluetooth/Wi-Fi is on; Update app; Move closer to unit.

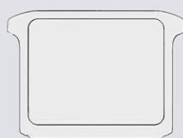
If the problem persists, contact Dabbsson customer support.

9. SPECIFICATIONS

Feature	Specification
Brand	Dabbsson
Model Name	DBS2100Pro
Battery Type	Semi-Solid LiFePO4
Capacity	2150Wh
Rated AC Output	2400W (Pure Sine Wave)
Peak AC Output	4800W
P-Boost Mode	Up to 3600W
Expandable Capacity	Up to 12.9kWh
AC Input Power	1800W Max
Solar Input Power	1200W Max
USB-C Output	2x 100W, 1x 30W
USB-A Output	2x 18W, 1x 12W
NEMA TT-30 Output	20A Power-Boost 3600W
EPS Switching Time	15ms
Dimensions (L x W x H)	17" x 10" x 11.9"
Weight	54 pounds



DABBSSON



Others 1



Others 2

	Semi-Solid LiFePO4 Battery	Ordinary LiFePO4 Battery	Ordinary LiFePO4 Battery
Battery Cells			
Capacity	2150Wh	2048Wh	2048Wh
Parallel Connection Function	Yes	No	No
Maximum Expansion Capacity	12900Wh	6144Wh	8192Wh
AC Input	1800W	1800W	1000W
Solar Input	1200W Max	1000W Max	700W Max
Battery Charge Cycles	4500+	3000+	3000+
Lifespan	15 Years	10 Years	10 Years
Power Lifting	3600w	3400w	3600W
UPS	15ms	30ms	20ms

Image 9.1: Detailed specifications of the DBS2100 Pro.

10. WARRANTY AND SUPPORT

Dabbsson provides a 5-year warranty for the DBS2100 Pro Solar Generator. For any inquiries, technical assistance, or warranty claims, please contact Dabbsson customer support. Our support team is available 24/7 to provide lifetime technical help.

For support, visit the official Dabbsson website or refer to the contact information provided in your warranty card.