

[Manuals.plus](#) /

› [Dabbsson](#) /

› DABBSSON 2000L Portable Power Station User Manual

Dabbsson DBS 2000L

DABBSSON 2000L Portable Power Station User Manual

Model: DBS 2000L

1. INTRODUCTION

Thank you for choosing the DABBSSON 2000L Portable Power Station. This advanced solar generator is designed to provide reliable and versatile power for a wide range of applications, from outdoor adventures like camping and RV trips to essential home backup during power outages. Featuring a high-capacity 2048Wh semi-solid LiFePO4 battery and a robust 2200W AC output (with P-Boost up to 3300W), the DABBSSON 2000L combines cutting-edge technology with a compact, lightweight design. This manual provides detailed instructions for safe operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

Space-saving Design

Smaller and lighter for any trip



11.2*18.3*8.9 in



41 lbs

*Compared to the average specs of similar 2kWh products

Figure 1.1: The DABBSSON 2000L is designed for portability, weighing just 41 lbs and featuring a compact form factor, making it easy to transport for any trip.

2. PRODUCT OVERVIEW

The DABBSSON 2000L is engineered for efficiency and convenience. Understand its components and features to maximize its utility.

2.1. Key Features

- **Ultra-Compact & Lightweight:** Dimensions of 11.2"L x 18.3"W x 8.9"H and a weight of 41 lbs for superior portability.
- **Extended Runtime:** 2048Wh capacity with semi-solid LiFePO4 cells and AI-driven BMS for 1.3X longer runtime.
- **Massive Output:** 2200W rated output, P-Boost up to 3300W, powering up to 12 devices simultaneously.
- **Versatile Ports:** 6 AC outlets, 2 USB-C (100W & 30W), 2 USB-A, 1 Car Port, and 1 DC5521.
- **Ultra-Fast Charging:** Recharge to 80% in 1.5 hours via 1500W AC input; supports up to 800W solar input.

- **Smart App Control:** Monitor status, adjust charging, and manage energy via Wi-Fi/Bluetooth.
- **Whisper-Quiet Operation:** Operates at 25 dB during low power usage.
- **Integrated LED Light:** Features Soft, Bright, and SOS modes for emergencies.

2.2. Product Components and Ports



Figure 2.1: Front view of the DABBSSON 2000L Portable Power Station.

- | | | | |
|---------------------------|----------------------------------|-------------------------|----------------------|
| 1 USB-C 100W Output Port | 2 DC Power Button/IOT | 3 Car Cigarette Lighter | 4 DC5521 Output Port |
| 5 USB-C 30W Output Port | 6 AC Output Port (x6) | 7 LCD Screen | 8 LIGHT ON/OFF |
| 9 LED | 10 Main Power Button | 11 USB-A Output Port | 12 AC ON/OFF |
| 13 AC Charging Input Port | 14 Solar/Car Charging Input Port | | |



Figure 2.2: Detailed diagram of the DABBSSON 2000L's input and output ports.

1. USB-C 100W Output Port
2. DC Power Button/IoT
3. Car Cigarette Lighter Output Port
4. DC5521 Output Port
5. USB-C 30W Output Port
6. AC Output Ports (x6)
7. LCD Screen
8. LIGHT ON/OFF Button
9. LED Light
10. Main Power Button
11. USB-A Output Ports
12. AC ON/OFF Button
13. AC Charging Input Port
14. Solar/Car Charging Input Port

3. SETUP

3.1. Unboxing and Initial Inspection

- Carefully remove the DABBSSON 2000L from its packaging.
- Inspect the unit for any visible damage. If damage is found, do not operate and contact customer support immediately.
- Verify all included accessories are present: 1x DABBSSON 2000L portable power station, 1x AC charging cable, 1x car charging cable, and 1x user manual.

3.2. First Use and Charging

Before first use, it is recommended to fully charge the DABBSSON 2000L.

1. Connect the provided AC charging cable to the AC Charging Input Port (13) on the unit.
2. Plug the other end of the AC charging cable into a standard wall outlet (100-120V AC).
3. The LCD screen (7) will illuminate, indicating the charging status. The unit will charge to 80% in approximately 1.5 hours.

4. For optimal battery health, it is advisable to fully charge the unit before storing it for extended periods.

3.3. Smart App Connection

Enhance your control and monitoring experience by connecting the DABBSSON 2000L to the Dabbsson App.

1. Download the Dabbsson App from your smartphone's app store (available for iOS and Android).
2. Ensure your DABBSSON 2000L is powered on.
3. Open the Dabbsson App and follow the on-screen instructions to connect via Wi-Fi or Bluetooth. You may need to press the IoT button (2) to activate pairing mode.
4. Once connected, you can monitor power status, adjust AC charging speed, schedule off-peak charging, and more.

4. OPERATING INSTRUCTIONS

4.1. Powering On/Off

- To power on the unit, press and hold the Main Power Button (10) for a few seconds until the LCD screen (7) illuminates.
- To power off the unit, press and hold the Main Power Button (10) again until the LCD screen turns off.

4.2. Using Output Ports

The DABBSSON 2000L offers various output options for different devices.

- **AC Outlets (6):** Press the AC ON/OFF Button (12) to activate the six AC outlets. The AC icon on the LCD screen will light up. Plug in your AC-powered devices. Press the button again to turn off AC output.
- **USB Ports (1, 5, 11):** The USB-C (100W & 30W) and USB-A ports are typically always active when the unit is powered on. Simply plug in your USB-powered devices.
- **Car Port (3) & DC5521 Port (4):** Press the DC Power Button (2) to activate these DC output ports. The DC icon on the LCD screen will light up. Plug in your 12V DC devices. Press the button again to turn off DC output.

Empower Your Journey

Rated 2200W, up to 3300W with Power-Boost Mode



Figure 4.1: The DABSSON 2000L can power multiple devices simultaneously, including laptops, refrigerators, kettles, and electric grills.

4.3. LCD Screen Display

The LCD screen provides real-time information about the power station's status:

- **Battery Level:** Displays the remaining battery percentage.
- **Input Power:** Shows the current power input (e.g., from AC or solar).
- **Output Power:** Displays the total power being drawn by connected devices.
- **Port Status:** Icons indicate which output ports (AC, DC, USB) are active.
- **Warning Indicators:** Alerts for overload, overheating, or other issues.

4.4. P-Boost Mode

The DABSSON 2000L features a P-Boost mode that allows it to power devices with a higher starting wattage than its rated 2200W output, up to 3300W. This is particularly useful for appliances with high surge requirements, such as power tools or certain

kitchen appliances. The unit intelligently manages power delivery to prevent overload.

4.5. LED Light Operation

The built-in LED light (9) can be activated by pressing the LIGHT ON/OFF Button (8).

- Press once for Soft mode.
- Press twice for Bright mode.
- Press three times for SOS mode (flashing signal).
- Press a fourth time to turn off the light.

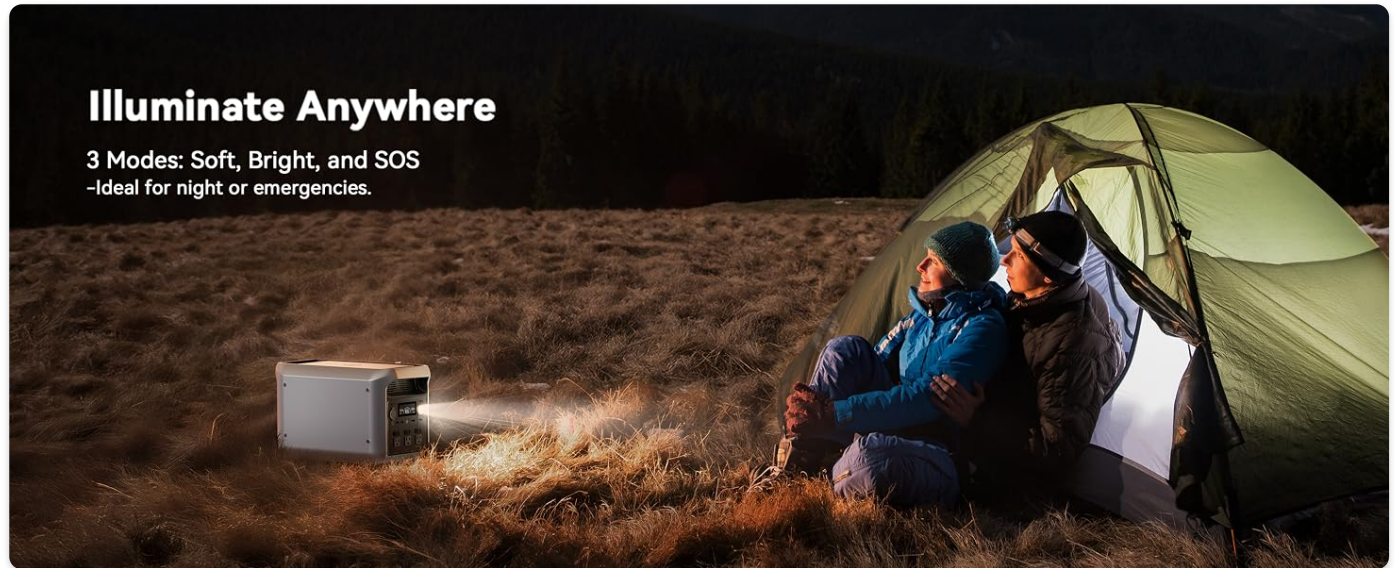


Figure 4.2: The integrated LED light provides illumination for various situations, including camping or emergencies.

5. CHARGING OPTIONS

The DABBSSON 2000L offers multiple flexible charging methods to keep your power station ready for use.

Multiple Charging Options



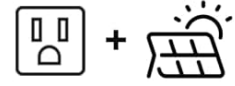
AC Socket



Solar Panel



Car Port



Dual Charging



Figure 5.1: Overview of the DABBSOON 2000L's versatile charging options.

5.1. AC Charging

- Connect the AC charging cable to the AC Charging Input Port (13) and a standard wall outlet.
- Supports up to 1500W AC input for ultra-fast charging.
- Recharges to 80% in approximately 1.5 hours.

5.2. Solar Charging

- Connect compatible solar panels (not included) to the Solar/Car Charging Input Port (14).
- Supports up to 800W maximum solar input.
- Features MPPT (Maximum Power Point Tracking) technology for efficient solar charging.
- For optimal solar charging, it is recommended to connect 2x 420W solar panels or 4x 210W solar panels.



Figure 5.2: The DABBSSON 2000L supports up to 800W solar input for efficient off-grid recharging.

5.3. Car Charging

- Connect the provided car charging cable to the Solar/Car Charging Input Port (14) and your vehicle's 12V/24V cigarette lighter socket.
- Ideal for charging on the go during road trips or while camping.

5.4. Dual Charging

- For even faster charging, combine AC input with solar input simultaneously.
- This method maximizes the charging speed, especially useful when time is limited.

6. SMART APP CONTROL

The Dabbsson App provides comprehensive control and monitoring capabilities for your DABBSSON 2000L, accessible via Wi-Fi or Bluetooth.

Smart App Control

Control your power anytime with the Dabbsson App via Wi-Fi or Bluetooth. Set off-peak charging to save up to 46%. Explore more smart features in the app.



Figure 6.1: The Dabbsson App allows for remote monitoring and control of your power station.

6.1. App Features

- **Monitor Battery Status:** View real-time battery percentage, input/output wattage, and remaining runtime.
- **Adjust AC Charging Speed:** Customize the AC input power to suit your needs, from silent charging to fast charging.
- **Schedule Off-Peak Charging:** Set specific times for charging to take advantage of lower electricity rates, potentially saving up to 46% on energy costs.
- **Manage Energy Usage:** Set discharge and charge limits to optimize battery lifespan and prevent over-discharge or over-charge.
- **Remote Control:** Turn AC/DC outputs on or off remotely.
- **Firmware Updates:** Receive and install firmware updates for improved performance and new features.

7. SAFETY AND BATTERY TECHNOLOGY

The DABBSSON 2000L is built with advanced safety features and robust battery technology to ensure reliable and long-lasting performance.

7.1. Semi-Solid LiFePO4 Battery

- The DABBSSON 2000L utilizes advanced semi-solid LiFePO4 (Lithium Iron Phosphate) battery cells, similar to those used in high-end electric vehicles.
- This technology offers superior safety, stability, and a longer lifespan compared to traditional lithium-ion batteries.
- Expected lifespan of 10 years with 4000+ charge cycles, retaining 80% battery health.
- Minimizes leakage and overheating risks, maintaining a stable temperature during operation.

SEMI-SOLID LiFePO4 BATTERY ENHANCE MORE SAFETY

Minimize Leakage & Overheating Risk



Ternary Lithium-ion Battery

Battery Life
500-800 Cycles
Needle Puncture Test
Explosion, heating up to 500°C



SEMI-SOLID LiFePO4 Battery

Battery Life
4000+ Cycles
Needle Puncture Test
No smoke, maintained at about 25°C



Ordinary LiFePO4 Battery

Battery Life
1500-3000 Cycles
Needle Puncture Test
Smoke, leakage, heating up to 110°C

Figure 7.1: Semi-solid LiFePO4 battery technology enhances safety by minimizing risks of leakage and overheating.

7.2. AI-Driven BMS Protection

- Equipped with an AI-powered Battery Management System (BMS) that provides 56+ layers of protection.
- Ensures safe and stable performance under all voltage conditions.
- Protections include: Over-charge, Over-discharge, Over-voltage, Under-voltage, Over-current, Short-circuit, Over-temperature, and Low-temperature protection.
- UL94-V0 fire-resistant design for enhanced safety.

Double Safety Upgrade

AI-Driven BMS Protection & Upgraded Semi-solid LiFePO4 Cell

10 Years
Lifespan

4000+
Charge Cycles

5 Years
Coverage

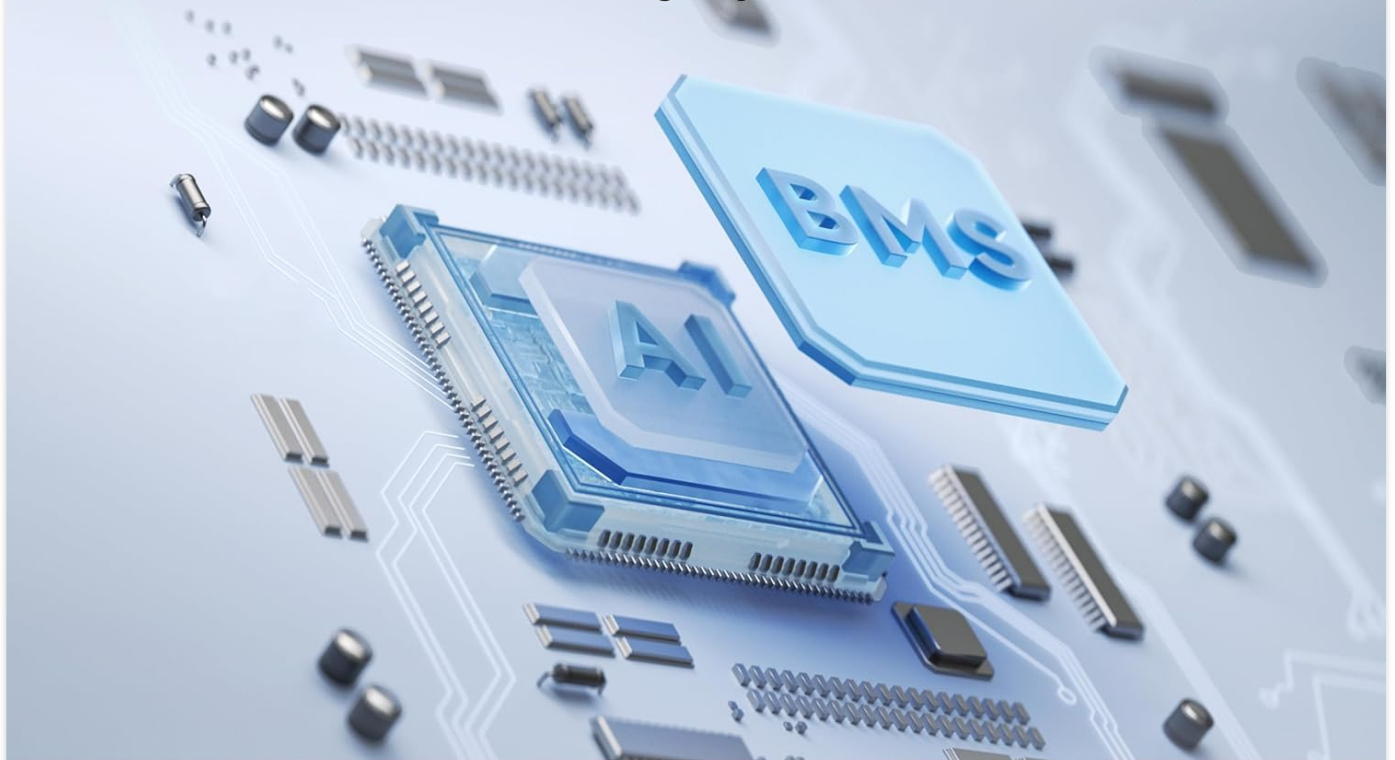


Figure 7.2: The AI-Driven BMS provides comprehensive protection for the battery system.

8. APPLICATIONS AND USE CASES

The DABBSSON 2000L is a versatile power solution suitable for various scenarios.

8.1. Home Backup

- Provides a reliable emergency power supply with less than 15ms EPS (Emergency Power Supply) switching time, ensuring continuous power during outages.
- Can power essential home appliances like refrigerators, lights, and communication devices.



Figure 8.1: Ensure continuous power for critical devices with the DABSSON 2000L's fast EPS switching.

8.2. Outdoor Adventures

- **Camping:** Power phones (15W - 125 times), laptops (60W - 30.7 Hrs), projectors (200W - 8.7 Hrs), and drones (50W - 37 times).
- **RV Trips:** Run RV air conditioners (1400W - 1.2 Hrs), refrigerators (150W - 11.6 Hrs), TV monitors (80W - 21.8 Hrs), and electric drill drivers (300W - 6.2 Hrs).
- **Fishing:** Power fish finders (30W - 61.5 Hrs), electric baitcasters (75W - 24.6 Hrs), cameras (15W - 125 times), and electric fishing reels (150W - 12.3 Hrs).
- **Backyard Parties:** Power party lights (20W - 93.2 Hrs), portable sound systems (50W - 36.9 Hrs), electric grills (1500W - 1.2 Hrs), and electric coolers (60W - 30.7 Hrs).



Camping

- Phone (15W) - 125 Times
- Laptop (60W) - 30.7 Hrs
- Projector (200W) - 8.7 Hrs
- Drone (50W) - 37 Times

Figure 8.2: The DABSSON 2000L provides ample power for extended camping trips.

8.3. Job Sites & DIY Work

- Power electric hammer drills (700W - 2.5 Hrs), orbital sanders (300W - 5.8 Hrs), cutting machines (1500W - 1.2 Hrs), and mini circular saws (400W - 4.3 Hrs).



DIY Workroom



Electric Hammer Drill
(700W)-2.5 Hrs



Orbital Sander
(300W)-5.8 Hrs



Cutting Machine
(1500W)- 1.2 Hrs



Mini Circular Saw
(400W)-4.3 Hrs

Figure 8.3: Power your tools and equipment on job sites or in your DIY workroom.

9. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your DABBSSON 2000L.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive materials. Keep vents clear of dust and debris.
- **Storage:** If storing for extended periods, fully charge the unit every 3-6 months to maintain battery health. Store in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Health:** Avoid completely draining the battery frequently. For optimal lifespan, try to keep the battery level between 20% and 80% during regular use.
- **Temperature:** Operate and store the unit within the recommended temperature range (typically 0°C to 40°C or 32°F to 104°F).

10. TROUBLESHOOTING

This section addresses common issues you might encounter with your DABBSSON 2000L.

Problem	Possible Cause	Solution
Unit does not power on	Battery is completely drained; Main power button not pressed long enough.	Charge the unit using AC power. Press and hold the Main Power Button (10) for 3-5 seconds.
AC outlets not working	AC output not activated; Overload; Device power consumption too high.	Press the AC ON/OFF Button (12). Reduce the load on AC outlets. Check if device wattage exceeds 2200W (or 3300W in P-Boost).
DC/USB ports not working	DC output not activated (for Car/DC5521); Device fault.	Press the DC Power Button (2). Try a different device or cable.

Problem	Possible Cause	Solution
Unit not charging	Charging cable loose or damaged; Input source issue; Over-temperature protection.	Ensure cables are securely connected. Try a different outlet or solar panel. Allow unit to cool down if it's hot.
Error Code (e.g., E02) on LCD	Internal fault or specific protection triggered.	Power off the unit, wait 5 minutes, then power on again. If the error persists, contact Dabbsson customer support. Do not attempt to repair.
App connection issues	Bluetooth/Wi-Fi off; Unit not in pairing mode; App glitch.	Ensure Bluetooth/Wi-Fi is enabled on your phone. Press the IoT button (2) to activate pairing. Restart the app or reinstall it. Ensure your phone is on a 2.4GHz Wi-Fi network if connecting via Wi-Fi.
Fan noise is loud	High power output; Unit is hot.	This is normal during high power output or charging. Ensure proper ventilation around the unit. The unit operates at 25 dB during low power usage.

11. SPECIFICATIONS

Detailed technical specifications for the DABBSSON 2000L Portable Power Station.

Specification	Value
Model Name	DBS 2000L
Battery Type	Semi-Solid LiFePO4
Capacity	2048Wh
AC Output (Rated)	2200W (6 outlets)
AC Output (P-Boost)	Up to 3300W
USB-C Output 1	100W
USB-C Output 2	30W
USB-A Output	15W (x2)
Car Port Output	126W
DC5521 Output	50.4W
AC Input Power	1500W Max
Solar Input Power	800W Max (MPPT)
Dimensions (L x W x H)	11.2" x 18.3" x 8.9"
Weight	41 lbs
Operating Temperature	32°F to 104°F (0°C to 40°C)

Specification	Value
Charge Cycles	4000+ to 80% capacity
Noise Level	25 dB (low power usage)

12. WARRANTY AND SUPPORT

Dabbsson is committed to providing high-quality products and excellent customer service.

12.1. What's Included

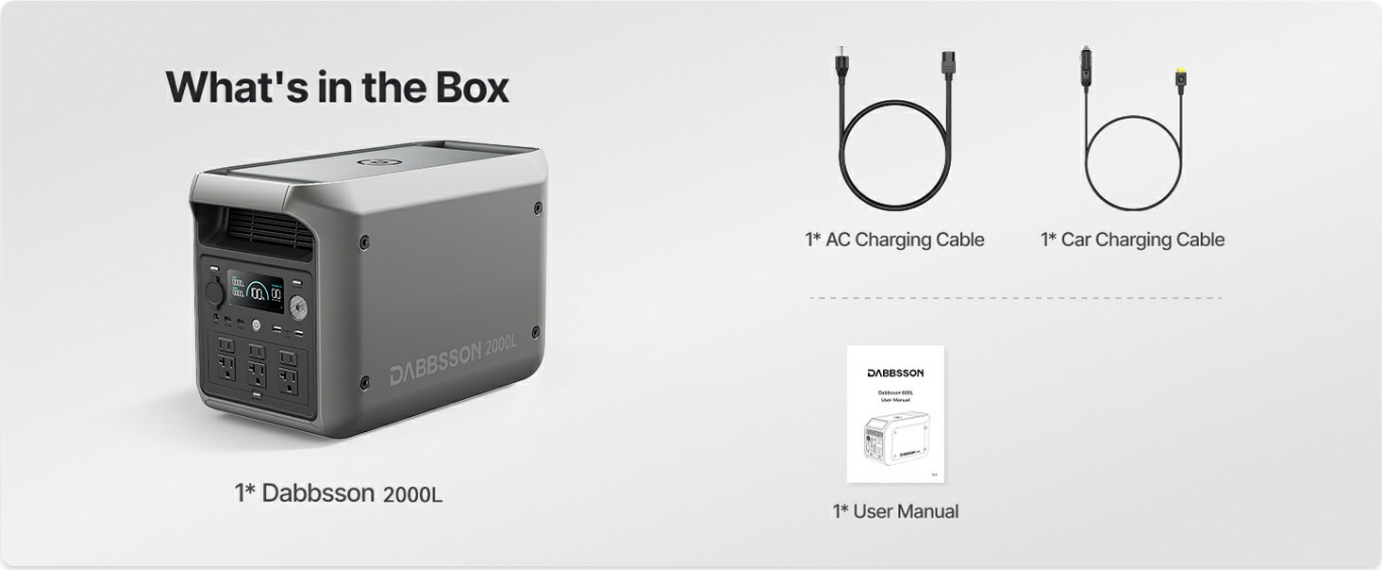


Figure 12.1: Package contents of the DABBSSON 2000L.

- 1x DABBSSON 2000L Portable Power Station
- 1x AC Charging Cable
- 1x Car Charging Cable
- 1x User Manual

12.2. Warranty Information

The DABBSSON 2000L is backed by an industry-leading 5-year warranty, which includes a 3-year standard warranty and an additional 2-year extended warranty. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

12.3. Customer Support

If you have any questions, concerns, or require assistance with your DABBSSON 2000L, please do not hesitate to contact our dedicated customer service team. Our team is available to help you with any product-related inquiries.

For support, please refer to the contact information provided in the user manual included in your product package or visit the official Dabbsson website.

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

Answered questions about this manual

Why is my Dabbsson DBS 2000L portable power station not charging?

If your Dabbsson DBS 2000L is not taking a charge, please check the following troubleshooting steps based on the user manual:Check Connections: Ensure the charging cable is securely plugged into both the unit's input...

[Read full answer](#)