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› Dabbsson Portable Power Station DBS2100 Pro Instruction Manual

Dabbsson DBS2100Pro

Dabbsson Portable Power Station DBS2100 Pro Instruction Manual

Model: DBS2100Pro

1. INTRODUCTION

The Dabbsson Portable Power Station DBS2100 Pro is a versatile and powerful energy solution designed for both home backup and outdoor adventures. With a massive 2400W high power output, expandable battery capacity from 2.1kWh to 12.9kWh, and a semi-solid LiFePO4 battery, it offers reliable and long-lasting power for a wide range of devices and appliances.

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Dabbsson Portable Power Station.

2. SAFETY INFORMATION

Please read all safety instructions carefully before using the Dabbsson Portable Power Station. 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 expose the unit to fire or high temperatures.
- Do not use or store the unit in direct sunlight or in hot environments.
- Keep the unit away from water, moisture, and corrosive substances.
- Ensure proper ventilation during use to prevent overheating.
- Keep out of reach of children and pets.
- Use only original or certified accessories and cables.

3. PRODUCT OVERVIEW

The Dabbsson DBS2100 Pro is equipped with multiple output ports to power various devices simultaneously. It features a clear display for monitoring status and can be controlled via a smartphone app.



Figure 3.1: Dabbsson Portable Power Station DBS2100 Pro and its accompanying smartphone application interface.

3.1. Key Features

- **Massive Power Output:** 2400W continuous output, expandable up to 4600W with P-Boost mode.
- **Expandable Capacity:** From 2.1kWh to 12.9kWh with additional battery packs (sold separately).
- **Long Lifespan Battery:** Equipped with Semi-Solid LiFePO4 Battery, retaining 80% capacity after 4500 cycles (approx. 15 years).
- **Multiple Output Ports:** Power up to 17 devices simultaneously, including AC outlets, NEMA TT-30 port, USB-C (100W), USB-A, Car Port, and DC 5521 ports.
- **Smart App Control:** Monitor, manage, and schedule charging/discharging via the Dabbsson smartphone app.
- **Fast Recharging:** Supports 1800W AC input and 1200W solar input for rapid charging.
- **Quiet Operation:** Operates at under 30dB for a peaceful experience.
- **UPS Functionality:** Provides 15ms emergency power supply for critical devices.

3.2. Ports and Controls



Figure 3.2: Overview of the Dabbsson DBS2100 Pro's output ports and their typical power usage with various home appliances.

The front panel features USB-A and USB-C ports, a main power button, and a light switch. The side panel includes AC outlets, a NEMA TT-30 port, and DC output ports. The rear panel houses the AC input, solar input, and expansion battery ports.

4. SETUP AND INITIAL USE

4.1. Unboxing and Inspection

Upon receiving your Dabbsson Portable Power Station, carefully unbox all components and inspect for any damage. The package should include:

- DBS2100 Pro Portable Power Station x1
- AC charging cable x1
- Solar charging cable x1
- Car charging cable x1
- User manual x1



Figure 4.1: What's in the box - Dabbsson DBS2100 Pro and included accessories.

4.2. Charging the Power Station

Before first use, fully charge the power station. The DBS2100 Pro offers multiple charging methods:

- **AC Charging:** Connect the AC charging cable to a standard wall outlet. The unit supports 1800W AC input, allowing it to charge from 0% to 80% in approximately 1.5 hours.
- **Solar Charging:** Connect compatible solar panels (sold separately) using the provided solar charging cable. The unit supports up to 1200W solar input with MPPT technology, charging to 100% in about 2.4 hours under ideal sunny conditions.
- **Car Charging:** Use the car charging cable to charge the unit from your vehicle's 12V outlet.

Faster Charging Solutions



Figure 4.2: Fast charging solutions for the Dabbsson DBS2100 Pro, including AC wall charging and solar panel charging.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

Press and hold the main power button on the front panel to turn the unit on or off. The display will illuminate, showing battery level and output information.

5.2. Connecting Devices

The DBS2100 Pro can power up to 13 devices at once, and up to 17 devices when connected to an expansion battery. Simply plug your devices into the appropriate ports.

- **AC Outlets:** For standard household appliances (e.g., refrigerators, microwaves).
- **NEMA TT-30 Port:** Specifically designed for RVs and heavy-duty appliances.
- **USB-C Ports (100W):** For fast charging laptops, smartphones, and other USB-C compatible devices.
- **USB-A Ports:** For charging smaller electronic devices.
- **Car Port & DC 5521 Ports:** For 12V DC devices.



Figure 5.1: The Dabbsson DBS2100 Pro can keep your entire house running during an unexpected outage, powering everything from small light bulbs to heavy-duty appliances.

5.3. P-Boost Mode

For devices requiring more power than the standard 2400W output, activate the P-Boost mode via the Dabbsson app to reach up to 3600W. This allows you to power heavier loads like power tools and medical equipment.

5.4. App Control

Download the Dabbsson app from your smartphone's app store. The app allows you to:

- Monitor battery status, input/output wattage, and remaining runtime.
- Turn AC, DC, and USB outputs on/off remotely.
- Activate P-Boost mode.
- Schedule charging/discharging during off-peak hours to save on electricity bills.

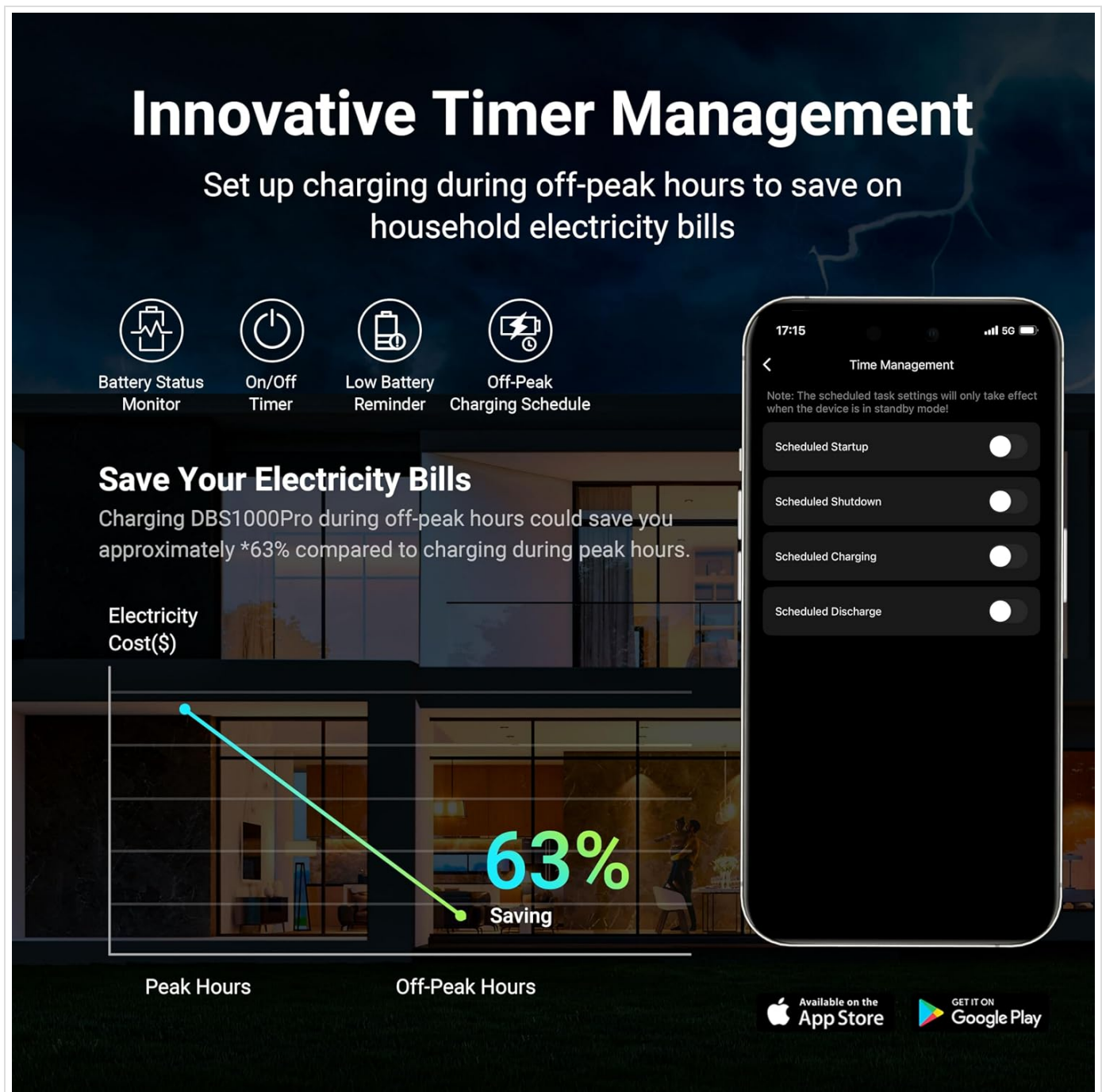


Figure 5.2: Innovative Timer Management via the Dabbsson app allows scheduling charging during off-peak hours for electricity bill savings.

5.5. UPS Functionality

The DBS2100 Pro provides a 15ms Emergency Power Supply (EPS) function. When connected to a wall outlet and powering devices, it can seamlessly switch to battery power in case of an outage, ensuring uninterrupted operation for sensitive electronics.

6. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your Dabbsson Portable Power Station, follow these maintenance guidelines:

- **Regular Charging:** Even if not in use, charge the unit fully every 3-6 months to maintain battery health.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use liquid cleaners or immerse the unit in water.
- **Battery Lifespan:** The Semi-Solid LiFePO4 Battery is designed for 4500+ cycles, maintaining 80% of its original capacity. This translates to approximately 15 years of daily use.

Pioneering Revolutionary Safety and Longevity

First in the Market: Crafted with the safest, most durable **Semi-solid LiFePO4 Battery**. Get **15 Years** of use with **4500+** cycles at 80% capacity.



Figure 6.1: Pioneering Revolutionary Safety and Longevity with Semi-solid LiFePO4 Battery, designed for 15 years of use with 4500+ cycles.

7. TROUBLESHOOTING

If you encounter issues with your Dabbsson Portable Power Station, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit not turning on	Battery depleted; Power button not pressed correctly	Charge the unit; Press and hold the power button for 3 seconds.
No output from AC/DC/USB ports	Output port not activated; Overload protection triggered	Activate the specific output port (AC/DC/USB) via button or app; Reduce connected load.
Slow charging	Low input power; High ambient temperature	Ensure charger/solar panels provide sufficient power; Move unit to a cooler environment.
App not connecting	Bluetooth/Wi-Fi off; Unit not in pairing mode	Enable Bluetooth/Wi-Fi on your phone; Reset pairing mode on the unit (refer to app instructions).

For further assistance, please contact Dabbsson customer support.

8. SPECIFICATIONS

Specification	Value
Brand	Dabbsson
Model Name	DBS2100Pro
Wattage	2400 watts
Fuel Type	Electric
Power Source	Battery-Powered/Solar-Powered
Recommended Uses	Commercial, Residential, Camping
Item Weight	54 Pounds
Voltage	120 Volts
Output Wattage (P-Boost)	3600 watts
Special Feature	Portable, Super Quiet, Rechargeable Battery
Product Dimensions	17"L x 10"W x 11.9"H
Total Power Outlets	4 (AC) + USB/DC ports
Frequency	60 Hz
Running Wattage	2400 Watts
Starting Wattage	4800 Watts
Battery Type	Semi-Solid LiFePO4
Battery Capacity	2150Wh (expandable to 12.9kWh)
Charge Cycles	4500+ (to 80% capacity)
UPS Switching Time	15ms

9. WARRANTY AND SUPPORT

Dabbsson provides dependable after-sales support for your product.

- **Warranty:** Enjoy 5 years of quality service.
- **Support:** 24/7 support and lifetime technical help are available.

If you have any inquiries about your solar powered generator, do not hesitate to reach out to our support team.

ASK A QUESTION ABOUT THIS MANUAL

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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