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> Dabbsson DBS1400Pro Solar Generator User Manual

## Dabbsson DBS1400Pro

# Dabbsson DBS1400Pro Solar Generator User Manual

Model: DBS1400Pro | Brand: Dabbsson

## INTRODUCTION

The Dabbsson DBS1400Pro Solar Generator is a versatile and powerful portable energy solution designed for various applications, including home backup, outdoor adventures, and job site power. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your DBS1400Pro unit.



Figure 1: Dabbsson DBS1400Pro Solar Generator with included solar panel.

## WHAT'S IN THE BOX

Upon unboxing your Dabbsson DBS1400Pro, please verify that all the following components are included:

- DBS1400 Pro Pure Sine Wave Portable Power Station x1
- DBS 210W Solar Panel x1
- AC Charging Cable x1
- Solar Charging Cable x1
- Car Charging Cable x1
- User Manual x1

Figure 2: All components included in the DBS1400Pro package.

## PRODUCT OVERVIEW

### Front Panel Interface

The front panel of the DBS1400Pro features a clear display and various output ports for convenient access:

- **Display Screen:** Shows real-time information including battery percentage, input/output wattage, and remaining recharge/discharge time.
- **USB-A Ports (x3):** Standard USB ports for charging smaller devices.
- **USB-C Ports (x2):** Includes one 100W Power Delivery (PD) port and one 30W PD port for fast charging compatible devices like laptops and smartphones.
- **Car Power Outlet (12V/10A):** For powering 12V DC devices.
- **DC5521 Ports (x2):** For connecting DC-powered devices.
- **Main Power Button:** Activates the unit and the display.
- **LED Light:** Integrated light for illumination in low-light conditions.

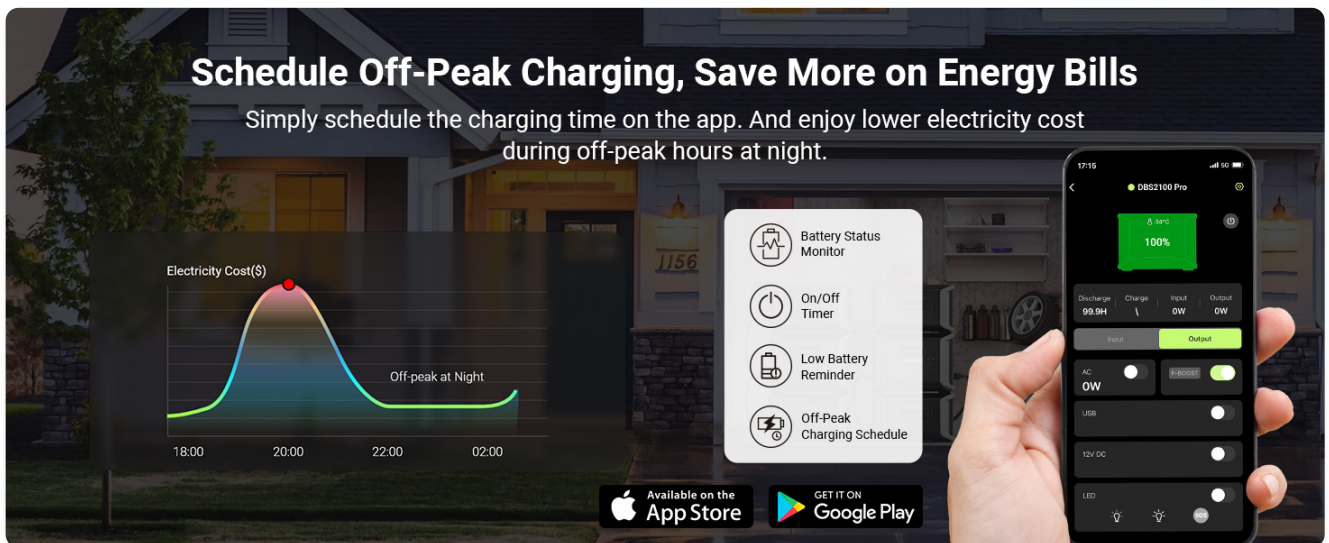


Figure 3: Front panel layout and port details.

### Rear Panel Interface

The rear panel provides robust AC output options and input ports for charging:

- **AC Outlets (x3):** Three 120V, 2400W Pure Sine Wave AC outlets for household appliances.
- **NEMA TT-30 Outlet:** A 30 Amp outlet for RVs and heavy-duty appliances.
- **AC Input Port:** For charging the unit via a wall outlet.
- **Solar/Car Input Port:** For charging via solar panels or a car charger.
- **Extra Battery Ports (x2):** For connecting optional expansion batteries to increase capacity.
- **Overload Protection Button:** Resettable circuit breaker.

## SETUP

Before first use, or after extended storage, fully charge your DBS1400Pro. The unit offers multiple charging methods:

- **AC Wall Outlet:** Connect the included AC charging cable to the unit's AC input port and a standard wall outlet. The unit can achieve 80% charge in approximately 42 minutes with 1800W AC charging.
- **Solar Charging:** Connect compatible solar panels (like the included DBS 210W) to the Solar/Car input port using the provided solar charging cable. The unit supports up to 1200W solar input, allowing for 80% charge in about 32 minutes when combined with AC charging.
- **Car Charging:** Use the car charging cable to connect the unit to your vehicle's 12V cigarette lighter port. This method is ideal for charging on the go.

# Lightning-Fast Charging with AC+PV

Get 80% Charged in Only **32** Min\*

  
**1200W Max.**  
Solar Charging

**DABFLASH**

One Step Ahead in Faster Charging

**1800W**  
AC Fast Charging



\*Charging time based on an 1800W AC input+600W solar input for a 1382Wh

Figure 4: Multiple charging options for the DBS1400Pro.

## OPERATING INSTRUCTIONS

### Powering On/Off

To power on the unit, press and hold the main power button on the front panel until the display illuminates. To power off, press and hold the same button until the display turns off.

### Connecting Devices

Simply plug your devices into the appropriate output ports (AC, USB-A, USB-C, 12V DC). The unit automatically detects and provides power. For AC output, ensure the AC button is toggled on.

### Using the Dabbsson App

The DBS1400Pro can be controlled and monitored via the Dabbsson mobile app (available for iOS and Android). The app allows you to:

- Check battery status and remaining runtime.
- Monitor charging and discharging speeds.
- Schedule off-peak charging to optimize energy costs.
- Manage output ports and set timers.

# Innovative Timer Management

Set up charging during off-peak hours to save on household electricity bills

## Save Your Electricity Bills

Charging DBS1000Pro during off-peak hours could save you approximately \*63% compared to charging during peak hours.

Time Period	Relative Electricity Cost
Peak Hours	High
Off-Peak Hours	Low (63% saving)

17:15 5G

Time Management

Note: The scheduled task settings will only take effect when the device is in standby mode!

- Scheduled Startup
- Scheduled Shutdown
- Scheduled Charging
- Scheduled Discharge

\*Note that actual savings can vary depending on your specific utility rates and any changes in electricity pricing.

Figure 5: Dabbsson app interface for smart control.

### Expandable Capacity

The DBS1400Pro's capacity can be expanded from 1.3kWh up to 11.3kWh by connecting additional DBS2100B expansion batteries. This allows for extended power supply during prolonged outages or for higher power demands.

# Expandable to 11.3kWh No Worries for Prolonged Periods

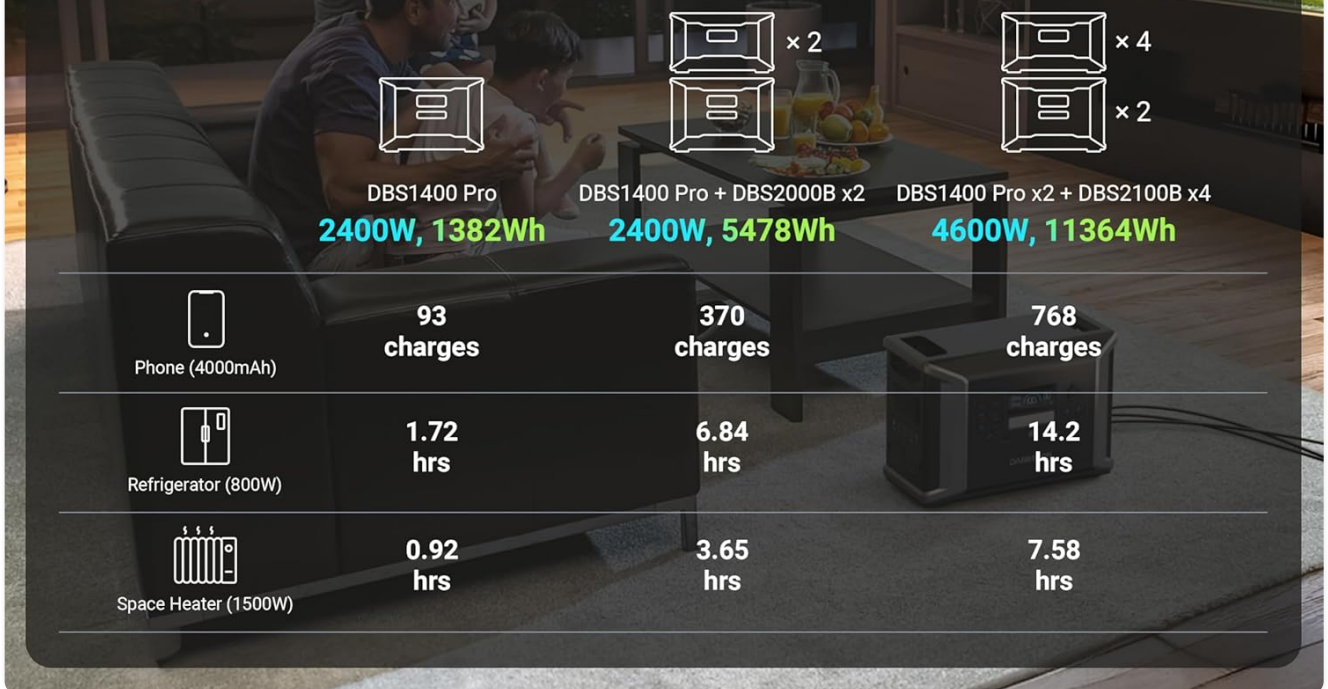


Figure 6: Expandable capacity options for the DBS1400Pro.

## MAINTENANCE

To ensure the longevity and optimal performance of your Dabbsson DBS1400Pro, follow these maintenance guidelines:

- **Battery Longevity:** The unit uses a semi-solid LiFePO4 battery, designed to retain 80% capacity after 4500 cycles, equivalent to over 15 years of typical use. Regular charging and discharging within recommended ranges will help maintain battery health.
- **Storage:** Store the unit in a dry, well-ventilated area within the recommended storage temperature range of 0°C to 45°C (32°F to 113°F). For long-term storage, charge the unit to approximately 50-60% every 3-6 months.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive materials.

# Semi-solid State Lifepo4 Battery

9x Longer Lifespan, Greater Safety



FCC EMC  
Class-B Certified



Safety Certified  
UL2743



Safety  
Certified ETL



Dab Shield  
Protection System



5  
Years  
Warr.Period



Figure 7: Semi-solid State LiFePO4 Battery technology for extended lifespan.

## TROUBLESHOOTING

If you encounter issues with your DBS1400Pro, refer to the following common problems and solutions:

- **Unit Not Powering On:** Ensure the unit is charged. If the battery is completely depleted, it may take a few minutes of charging before the display activates.
- **No Output from Ports:** Verify that the specific output (AC, USB, DC) is enabled via its respective button on the front panel. Check the display for any error codes.
- **App Connectivity Issues:** Ensure Bluetooth and Wi-Fi are enabled on your mobile device. Try restarting the app and the DBS1400Pro unit. Refer to the app section in the user manual for detailed connection steps.
- **Overload Protection Triggered:** If the unit shuts down unexpectedly, it may be due to an overload. Reduce the number or wattage of connected devices and press the overload protection button on the rear panel to reset.

- **Power Button Responsiveness:** If the power button is unresponsive, ensure you are pressing and holding it for the required duration (typically a few seconds) to power on/off the unit.

For persistent issues not covered here, please contact Dabbsson customer support.

## SPECIFICATIONS

Feature	Specification
Brand	Dabbsson
Model Name	DBS1400Pro
Capacity	1382Wh (51.2V, 27Ah)
Rated Power	2400W (Pure Sine Wave)
Surge Power	4800W
Battery Type	Semi-solid LiFePO4
Cycle Life	4500+ cycles to 80% capacity
AC Input Voltage	100-120V ~ 15A Max, 50/60Hz
AC Charging Speed	1800W Max
Solar Charging Input	12-60V ~ 25A Max, 1200W Max
Item Weight	45 Pounds
Product Dimensions	17"L x 10"W x 11.9"H
Optimal Operating Temperature	20°C-30°C (68°F-86°F)
Discharge Temperature	-10°C-45°C (14°F-113°F)
Charging Temperature	-10°C-45°C (14°F-113°F)
Storage Temperature	0°C-45°C (32°F-113°F)
Protection Features	Over Voltage, Over Temperature, Low Temperature, Overcurrent, Overload, Short Circuit, Low Voltage, Over Charge Protection

## WARRANTY & SUPPORT

The Dabbsson DBS1400Pro comes with a 3-year warranty, with an additional 2 years of extended warranty available, totaling 5 years of quality service. Dabbsson provides 24/7 customer support and lifetime technical assistance for your product.

For any inquiries or support needs, please refer to the contact information provided in your product packaging or visit the official Dabbsson website.