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› Dyness 1800W 1536Wh Portable LiFePO4 Power Station User Manual

Dyness EP1800

Dyness 1800W 1536Wh Portable LiFePO4 Power Station User Manual

Model: EP1800 / PPS1800

1. INTRODUCTION

Thank you for choosing the Dyness 1800W 1536Wh Portable LiFePO4 Power Station. This manual provides essential information for the safe and efficient use of your power station. Please read it thoroughly before operation and keep it for future reference.

This portable power station is designed to provide reliable power for various applications, including home backup, outdoor camping, and emergency situations. It features a high-capacity LiFePO4 battery, multiple output ports, and flexible charging options.

2. IMPORTANT SAFETY INSTRUCTIONS

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not place the unit near fire or expose it to heat. Keep out of direct sunlight.
- Do not charge, use, or store the unit in a bathroom or an area exposed to water or moisture.
- Use only the provided charger and cables.
- Do not use the unit if it is damaged or modified.
- Keep out of reach of children and pets.
- Ensure proper ventilation during use and charging.
- Avoid dropping, heavy impacts, or strong vibrations.
- Do not insert foreign objects into the ports.
- In case of fire, use a dry powder fire extinguisher.

3. PRODUCT OVERVIEW

The Dyness Portable Power Station is equipped with various ports and features for versatile power delivery.

3.1 Front Panel and Ports



Mit 99 % der Geräte betrieben
1800W AC-Ausgang

			
Kaffeeautomat (1000W)	Wasserkocher (1500W)	Föhn (1600W)	Klimaanlage (1800W)
1,3 Std.	0,9 Std.	0,8 Std.	0,7 Std.

Image: Front view of the Dyness Portable Power Station. This image displays the main control panel, including the digital display, AC output sockets, USB-A and USB-C ports, and various control buttons for power management.

- **Digital Display:** Shows battery level, input/output power, and status indicators.
- **AC Output Sockets:** 3 AC outlets for powering standard household appliances.
- **USB-C Ports:** 2 Type-C ports for fast charging compatible devices.
- **USB-A Ports:** 2 USB-A ports for charging various USB devices.
- **DC Output:** 1 car cigarette lighter socket.
- **Control Buttons:** Power ON/OFF, AC ON/OFF, DC ON/OFF, Light ON/OFF.

3.2 Rear Panel and Inputs

Haltbar Für 10 Jahre Entwickelt **4000+** Zyklen

Automobil-Grade LiFePO₄-Batterie



Image: Rear view of the Dyness Portable Power Station. This image highlights the input ports, including the AC charging input, XT90 solar input, and ports for connecting optional expansion batteries.

- **AC Input:** For charging the power station via a standard wall outlet.
- **XT90 Solar Input:** For connecting solar panels to charge the unit.
- **Expansion Battery Ports:** For connecting additional batteries to extend capacity up to 4608Wh.

4. SETUP AND INITIAL USE

4.1 Unpacking

Carefully remove the power station and all accessories from the packaging. Verify that all components listed in the package contents are present:

- 1 x Dyness Portable Power Station
- 1 x AC Charging Cable
- 1 x XT90 Solar Charging Cable
- 1 x User Manual

4.2 Initial Charging

Before first use, it is recommended to fully charge the power station. Connect the AC charging cable to the AC input port on the unit and then to a wall outlet. The display will indicate charging status. The unit supports fast charging, reaching 100% in approximately 1.2 hours via AC.



Image: This image illustrates the three flexible charging methods for the Dyness power station: AC wall charging, solar panel charging, and car adapter charging. It highlights the rapid charging capabilities for each method.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Press and hold the main power button for a few seconds to turn the unit ON or OFF. The display will illuminate when the unit is active.

5.2 Charging External Devices

The power station offers multiple output options:

- **AC Output:** Press the AC ON/OFF button to activate the AC outlets. Connect your devices (e.g., laptops, small appliances) to the AC sockets. The unit provides a pure sine wave output, safe for sensitive electronics.
- **USB Output:** The USB-A and USB-C ports are always active when the unit is on. Simply connect your USB-powered devices.
- **DC Output:** Press the DC ON/OFF button to activate the car cigarette lighter socket. Connect 12V DC devices.



Image: This image demonstrates the Dyness power station's capability to power multiple high-wattage appliances simultaneously, such as a coffee maker, water kettle, hairdryer, and air conditioner, indicating their approximate run times.

5.3 UPS Functionality

The Dyness power station features an Uninterruptible Power Supply (UPS) function. When connected to an AC wall outlet and simultaneously powering devices, it can automatically switch to battery power within 10 milliseconds in case of a power outage. This ensures continuous operation for essential devices like computers and routers.



Image: This image visually explains the UPS (Uninterruptible Power Supply) feature, showing the power station connected to a wall outlet and a laptop, with an icon indicating a rapid switch to battery power during an outage.

5.4 Emergency Light

The unit includes an integrated emergency light with 3 brightness modes. Press the light button to cycle through the modes (Low, Medium, High, OFF).



PASSTHROUGH SOLAIRE & MULTI-DISPOSITIFS

Recharge solaire et alimentation simultanée de plusieurs appareils

Image: A person is shown interacting with the Dyess power station's emergency light, demonstrating its three adjustable brightness modes for various lighting needs.

5.5 Smart App Control

Download the Dyess app to control and monitor your power station remotely. The app allows you to:

- Monitor charging status and power output.
- Customize settings.
- View power statistics.

Refer to the app's instructions for pairing and detailed features.

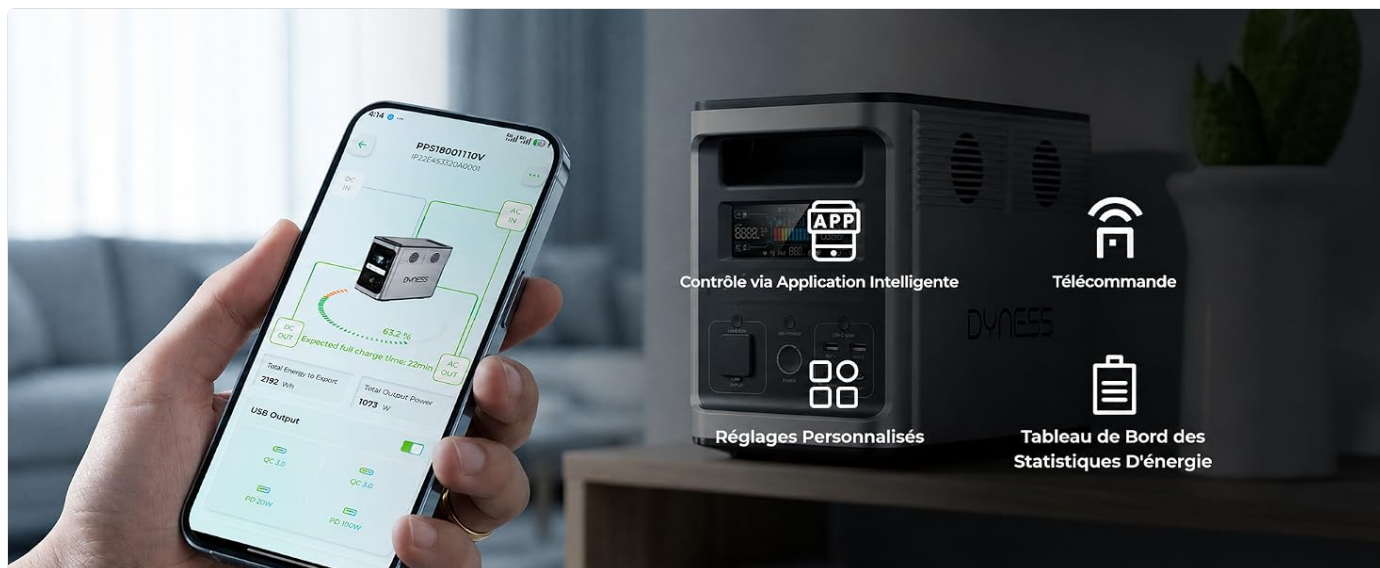


Image: A smartphone screen displays the Dyess mobile application, illustrating its interface for remote control, monitoring charge status, power output, and customizing settings for the power station.

6. MAINTENANCE AND STORAGE

6.1 Battery Care

The Dyess power station uses an automotive-grade LiFePO4 battery, designed for over 4000 charge-discharge cycles,

providing a lifespan of up to 10 years. To maximize battery life:

- Recharge the unit at least once every 3-6 months, even if not in use.
- Store in a cool, dry place away from direct sunlight and extreme temperatures.
- Maintain a charge level between 50% and 80% for long-term storage.

Technologie de Charge Ultra-rapide Intégrée

Vitesse de Charge

1,2 h

Notre Produit :

7,5-9 h

Concurrence :

Image: This image illustrates the internal structure of the power station's LiFePO4 battery, emphasizing its durability with over 4000 charge cycles, designed for a long operational lifespan.

6.2 Cleaning

Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely discharged; Power button not pressed long enough.	Charge the unit immediately; Press and hold the power button for 3-5 seconds.
AC output not working	AC output not activated; Device power exceeds 1800W (or 2400W with X-Boost); Overload protection triggered.	Press the AC ON/OFF button; Check device wattage; Disconnect high-power devices and restart AC output.
Slow charging via solar	Insufficient sunlight; Solar panels not correctly positioned; MPPT not optimized.	Ensure panels are in direct sunlight; Adjust panel angle; Check connections.
Error code on display	Internal system error; Over-temperature, over-voltage, etc.	Refer to the specific error code in the full manual (if available) or contact customer support.

The integrated Battery Management System (BMS) provides 6 essential protections: short-circuit, over-current, over-voltage, under-voltage, overload, and over-temperature. If an issue persists, please contact customer support.



Image: This diagram visually represents the six essential protection features provided by the integrated Battery Management System (BMS), including over-voltage, deep discharge, high-temperature, overload, and short-circuit protection.

8. TECHNICAL SPECIFICATIONS

Feature	Detail
Model Name	EP1800
Model Number	PPS1800
Brand	Dyness
Rated Power	1800W
Peak Power	2800W
Battery Capacity	1536Wh (Expandable up to 4608Wh)
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Battery Cycles	4000+ cycles to 80% capacity
AC Output	3 x AC outlets (Pure Sine Wave)
USB-C Output	2 x Type-C ports
USB-A Output	2 x USB-A ports
DC Output	1 x Car cigarette lighter socket
AC Charging Input	Fast bidirectional charging (1.2h to 100%)
Solar Charging Input	XT90 (MPPT technology, 1.2h to 80% in full sun)
Car Charging Input	Supported via car adapter
UPS Function	Automatic switchover <10ms
Dimensions (L x W x H)	40L x 21l x 29H cm (15.9 x 8.6 x 11.6 inches)

Feature	Detail
Weight	21.6 kg (47.6 lbs)
Special Features	Portable, Smart App Control, Emergency Light (3 modes), BMS Protection



Image: This image provides a visual representation of the Dyness power station's dimensions and weight, highlighting its ultra-light design for portability.

9. WARRANTY AND CUSTOMER SUPPORT

The Dyness 1800W 1536Wh Portable Power Station comes with a **5-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable performance under normal use conditions. For technical assistance, troubleshooting, or warranty claims, please contact Dyness customer support through the official website or your retailer. Please have your purchase receipt and product model number (EP1800 / PPS1800) ready when contacting support.

Manufacturer: Dyness
Country of Origin: China

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.

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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

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