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Dyness EP2400

Dyness 2400W Portable Power Station (Model EP2400)

User Manual

1. Important Safety Information

Please read this manual carefully before operating your Dyness 2400W Portable Power Station. Failure to follow these instructions may result in damage to the unit, property, or personal injury. Keep this manual for future reference.

- Do not disassemble, repair, or modify the unit.
- Avoid exposure to high temperatures, direct sunlight, or flammable materials.
- Keep the unit away from water and other liquids.
- Ensure proper ventilation during use and charging to prevent overheating.
- Use only original or certified charging cables and accessories.
- Keep out of reach of children and pets.

2. Product Overview

The Dyness 2400W Portable Power Station is a versatile and powerful energy solution designed for various applications, from home backup to outdoor adventures. It features a 2048Wh LiFePO4 battery, providing a stable 2400W (4800W peak) pure sine wave output.

Key Features:

- **High Power & Capacity:** 2400W rated power, 4800W peak power, 2048Wh LiFePO4 battery.
- **Long Lifespan:** LiFePO4 battery offers over 4000 charge cycles, designed for up to 10 years of use.
- **Multiple Outputs:** 13 output ports including AC, USB-A, Type-C, DC5521, XT60, and car charging port.
- **Uninterruptible Power Supply (UPS):** Automatic 10ms switchover during power outages.
- **Pure Sine Wave Output:** Safe for sensitive electronics.
- **Smart APP Control:** Remote monitoring, control, and scheduling via mobile application.
- **Integrated LED Light:** Features 3 brightness levels for emergency or ambient lighting.
- **Advanced Protection:** Built-in BMS (Battery Management System) provides six protections: short-circuit, overcurrent, overvoltage, undervoltage, overload, and overheat.

Package Contents:

- 1 x Dyness 2400W Portable Power Station
- 1 x AC Charging Cable
- 1 x Car Charging Cable (XT90 port)
- 1 x Solar Charging Cable (XT90 port)
- 1 x User Manual

Image: The Dyness 2400W Portable Power Station, showcasing its main unit and robust design.

Image: The Dyness 2400W Portable Power Station and its included accessories: AC charging cable, car charging cable, solar charging cable, and user manual.

3. Setup

Before first use, it is recommended to fully charge your power station.

Initial Charging:

1. Unpack the power station and all accessories.
2. Connect the AC charging cable to the power station's AC input port.
3. Plug the other end of the AC charging cable into a standard wall outlet.
4. The display will show the charging status. Charge until the battery indicator shows 100%.

Placement:

Place the power station on a stable, flat surface with adequate ventilation. Avoid placing it in enclosed spaces or near heat sources.

4. Operating Instructions

Powering On/Off:

- To power on, press and hold the main power button for a few seconds until the display illuminates.
- To power off, press and hold the main power button again until the display turns off.

Charging the Power Station:

The Dyness 2400W offers four flexible charging methods:

1. **AC Wall Outlet Charging:** Connect the AC charging cable to a standard wall outlet. The unit can fully charge in approximately 2 hours (1100W input).
2. **Solar Panel Charging:** Connect compatible solar panels (up to 500W) to the XT90 input port using the provided solar charging cable. The integrated MPPT technology optimizes solar charging efficiency.
3. **Car Charging:** Connect the car charging cable (XT90 port) to your vehicle's 12V cigarette lighter socket.

4. **AC + Solar Combined Charging:** For the fastest charging, combine AC and solar inputs. This can fully charge the unit in approximately 1.5 hours.

Image: Four flexible charging options for the Dyness 2400W Portable Power Station: AC wall outlet, solar panel, car cigarette lighter, and combined AC + solar charging.

Using Output Ports:

The power station features 13 output ports to power various devices simultaneously.

- **AC Outlets (x3):** Press the AC power button to activate. Connect your AC-powered devices.
- **USB-A Ports (x2):** Connect USB-A compatible devices for charging.
- **Type-C Ports (x4):** Connect Type-C compatible devices for fast charging.
- **DC5521 Ports (x2):** Connect DC-powered devices.
- **XT60 Port (x1):** For specific DC applications.
- **Car Charging Port (x1):** For 12V car accessories.

Image: The Dyness 2400W Portable Power Station powering multiple devices simultaneously, including a laptop, smartphone, and camera.

Uninterruptible Power Supply (UPS) Function:

When connected to an AC wall outlet and powering devices, the UPS function provides automatic backup power. In case of a power outage, the unit will switch to battery power within 10 milliseconds, ensuring continuous operation for connected essential devices like computers and routers.

Image: A family using the Dyness 2400W Portable Power Station to power a laptop and lamp, demonstrating its UPS capability during a power interruption.

Mobile App Control:

Download the Dyness mobile application to remotely monitor and control your power station. The app allows you to check battery level, real-time power input/output, and schedule charging times.

1. Scan the QR code in the manual or search for the 'Dyness' app in your app store.
2. Follow the in-app instructions to connect your power station via Bluetooth or Wi-Fi.
3. Once connected, you can access various functions and monitor performance statistics.

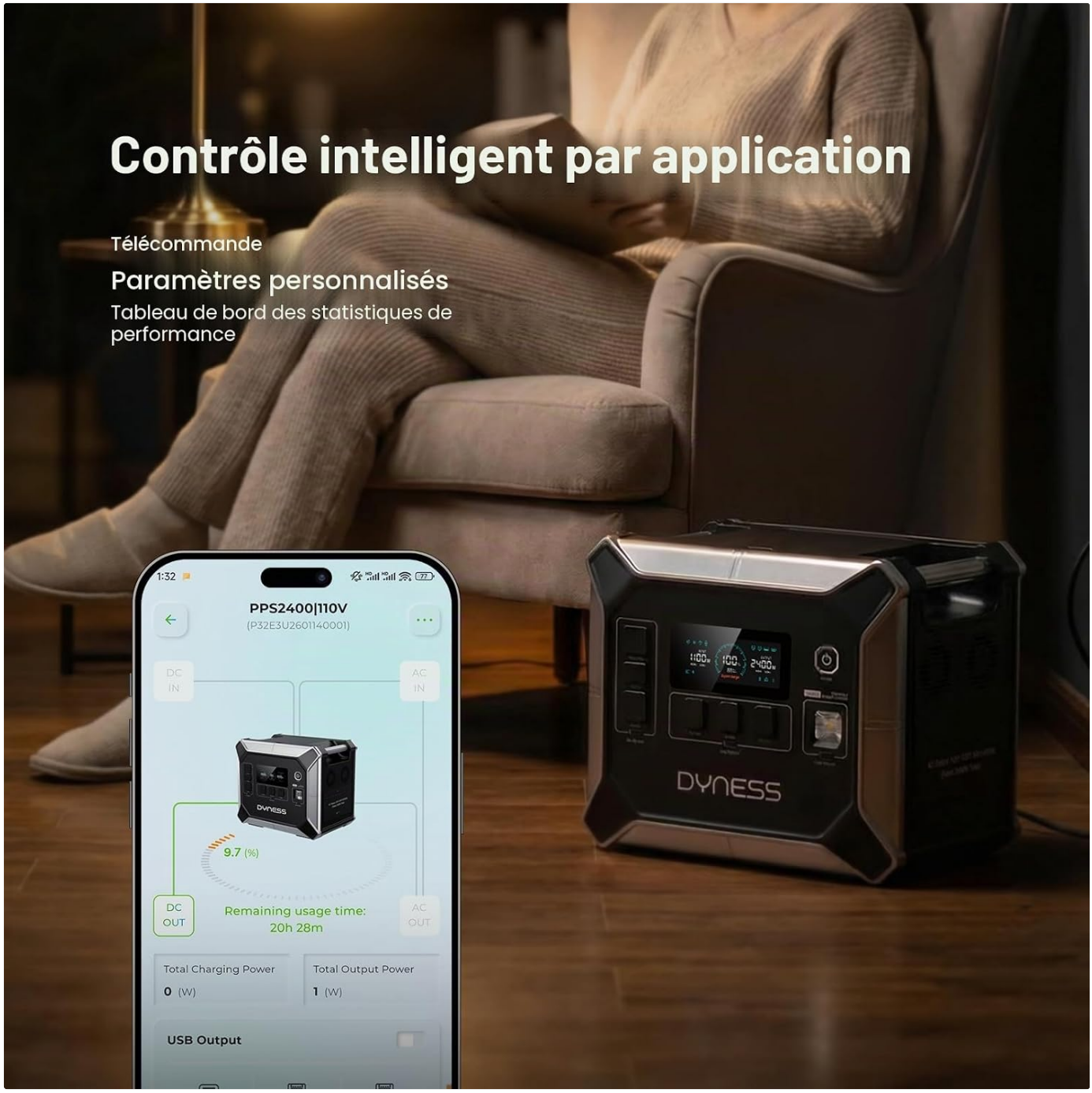

Image: The Dyness 2400W Portable Power Station next to a smartphone displaying the Dyness mobile application interface for smart control and monitoring.

LED Light Operation:

The integrated LED light can be used for illumination in various situations.

- Press the LED light button once to turn it on at the lowest brightness.
- Press again to cycle through medium, high brightness, and SOS mode.
- Press and hold to turn off the LED light.

Image: The Dyness 2400W Portable Power Station providing illumination with its LED light in an outdoor camping setting.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your power station.

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Storage:** Store the power station in a cool, dry, and well-ventilated area, away from direct sunlight and extreme temperatures.
- **Battery Care:** For long-term storage, charge the unit to approximately 50-80% every 3-6 months to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Ventilation:** Ensure the ventilation openings are clear of dust and debris.

6. Troubleshooting

If you encounter issues with your power station, refer to the following common troubleshooting steps:

- **Unit Not Turning On:** Ensure the battery is charged. If not, connect to a power source and try again.
- **No Output from Ports:** Check if the specific output (AC, DC, USB) is activated by pressing its respective button. Ensure the device connected is within the power station's output limits.
- **Slow Charging:** Verify that the charging cable is securely connected. For solar charging, ensure panels are in direct sunlight and clean. Check the input wattage on the display.
- **Overload Protection:** If the unit shuts down due to overload, disconnect the high-power device, wait a few minutes, and restart the power station.
- **App Connection Issues:** Ensure Bluetooth/Wi-Fi is enabled on your mobile device and the power station is within range. Restart both the app and the power station if necessary.

If problems persist, please contact Dyness customer support.

7. Specifications

Feature	Specification
Brand	Dyness
Model Name	EP2400
Model Number	PPS2400
Wattage	2400 Watts
Peak Power	4800 Watts
Battery Type	LiFePO4
Battery Capacity	2048Wh
Power Source	Battery Powered
Output Voltage	Pure Sine Wave
Total Electrical Outlets	13 (3 AC, 4 Type-C, 2 USB-A, 2 DC5521, 1 XT60, 1 Car Charging)
Special Features	Digital Display, USB Port, Overload Protection, UPS Function, App Control
Item Weight	21.8 Kilograms
Dimensions (L x W x H)	38L x 27W x 32H Centimeters
Material Type	ABS
Country of Origin	China

8. Warranty and Support

Warranty Information:

The Dyness 2400W Portable Power Station comes with a warranty of up to 5 years. This warranty covers manufacturing defects and ensures peace of mind for your purchase. Please retain your proof of purchase for warranty claims.

Customer Support:

For any questions, technical assistance, or warranty claims, please contact Dyness EU customer support. You can find contact information on the official Dyness website or through your purchase platform.

Dyness EU is committed to providing specialized customer support and ensuring your satisfaction with their products.

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