

ALLPOWERS R2500

ALLPOWERS R2500 Portable Power Station User Manual

Model: R2500

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your ALLPOWERS R2500 Portable Power Station. Please read this guide thoroughly before using the product and retain it for future reference. The ALLPOWERS R2500 is a high-capacity portable power station designed to provide reliable power for various applications, including home backup, outdoor activities, camping, and RV use.

2. SAFETY INSTRUCTIONS

- Do not disassemble, repair, or modify the unit.
- Do not place the unit near heat sources or in direct sunlight for extended periods.
- Avoid exposure to rain or moisture.
- Keep the unit away from children and pets.
- Ensure proper ventilation during use and charging.
- Use only original or certified charging cables and accessories.
- In case of fire, use a dry powder fire extinguisher. Do not use water.

3. PACKAGE CONTENTS

Verify that all items are included in your package:

- 1 x ALLPOWERS R2500 Portable Power Station
- 1 x AC Charging Cable
- 1 x Solar to XT60 Charging Cable
- 1 x User Manual

4. PRODUCT OVERVIEW

Familiarize yourself with the ALLPOWERS R2500's components and ports.



Image: Front view of the ALLPOWERS R2500 Portable Power Station, showcasing its robust design and various output ports.

LADEN SIE 13 GERÄTE GLEICHZEITIG AUF

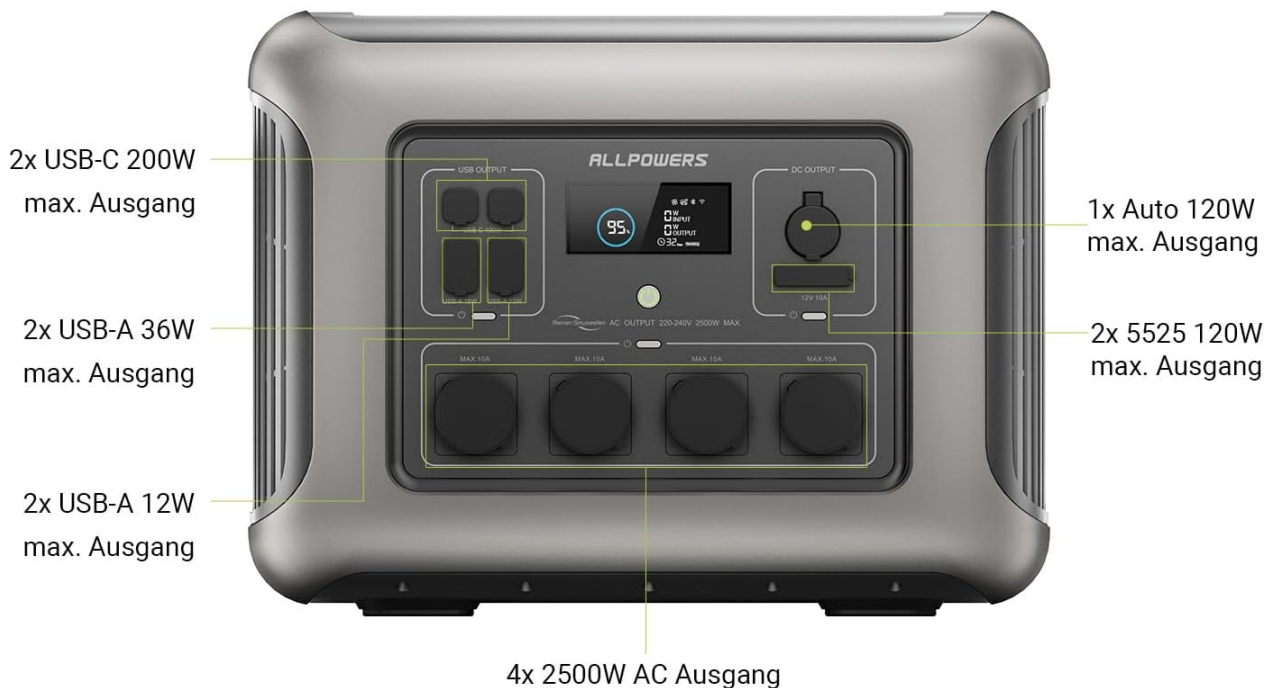


Image: Diagram illustrating the various output ports of the ALLPOWERS R2500, including 4x 2500W AC outputs, 2x USB-A 12W, 2x USB-A 36W, 2x USB-C 200W, 2x 5525 120W, and 1x Car 120W output.

Control Panel and Display

The front panel features a display screen that shows real-time information such as battery level, input/output wattage, and remaining run/charge time. Buttons are provided for power on/off, AC output, DC output, and other functions.

5. CHARGING THE POWER STATION

The ALLPOWERS R2500 offers multiple charging options:

Fast Charging Capability

The R2500 can be charged from 0% to 100% in approximately 1 hour using a combination of solar panels and wall outlets, thanks to its AP-Power technology.

BESONDERS SCHNELLES AUFLADEN

Aufladen von 0-100 % in nur **1** Stunde



Image: Illustration of various charging methods. Top: Combined wall outlet + solar charging (1 hour to 100% at 2000W max input). Bottom left: Wall outlet charging (1.3 hours at 1500W max input). Bottom center: Solar charging (2 hours at 1000W max input). Bottom right: Car charging (12V/24V input).

AC Wall Charging

Connect the provided AC charging cable to the power station's AC input port and then to a standard wall outlet. The display will indicate charging status.

Solar Charging

Connect compatible solar panels (not included) to the XT60 input port using the provided solar to XT60 charging cable. Ensure the solar panels are placed in direct sunlight for optimal charging efficiency.

Car Charging

The R2500 can be charged via a 12V/24V car cigarette lighter socket. Use the appropriate car charging cable (not included) to connect the power station to your vehicle's power outlet.

6. USING THE POWER STATION

The ALLPOWERS R2500 can power up to 13 devices simultaneously.

AC Output

Press the AC power button to activate the AC outlets. Plug your devices into the 230V AC ports. The R2500 provides a pure sine wave output of 2500W (surge 4000W).

**RIESIGE LEISTUNG FÜR ALLE
IHRE BEDÜRFNISSE**
2016Wh / 2500W

 Heißluftfritteuse 1500W 1,2 Stunden	 Kaffeemaschine 1000W 1,7 Stunden	 Elektrische Bohrmaschinen 1080W 1,5 Stunden	 Mikrowelle 1300W 1,3 Stunden
 Elektrische Bratpfanne 1500W 1,1 Stunden	 Haartrockner 1600W 1 Stunden	 Wasserkocher 1500W 1,1 Stunden	 Elektrische Heizung 2200W 0,7 Stunden



Image: A family using the ALLPOWERS R2500 to power kitchen appliances like an air fryer (1500W for 1.2 hours), coffee machine (1000W for 1.7 hours), electric drill (1080W for 1.5 hours), microwave (1300W for 1.3 hours), electric frying pan (1500W for 1.1 hours), hairdryer (1600W for 1 hour), water heater (1500W for 1.1 hours), and electric heater (2200W for 0.7 hours).

DC Output

Press the DC power button to activate the DC ports, including USB-A, USB-C, DC5525, and the car cigarette lighter port. Connect your USB-powered devices or 12V DC appliances.



LIFEPO4 AKKU FÜR MEHR ALS 10 JAHRE

Zusammen mit BMS führt der R2500 mehr als 3500 sichere Zyklen durch

Image: The ALLPOWERS R2500 powering various home appliances, such as a refrigerator (800W for 2 hours), air conditioner (8000BTU for 2-4 hours), desktop computer (200W for 8.5 hours), heating blanket (120W for 14 hours), television (80W for 21 hours), and coffee machine (1000W for 1.7 hours), demonstrating its use during power outages.



ECO-MODUS ENERGIEKOSTEN SPAREN

Der Wechsel in den Eco-Modus verlängert die Standby-Zeit und minimiert Batterieschäden.

Image: The ALLPOWERS R2500 powering outdoor appliances in a camping setting, including an electric frying pan (1500W for 1.1 hours), portable refrigerator (60W for 28 hours), hairdryer (800W for 2 hours), electric grill (1200W for 1.4 hours), projector (100W for 17 hours), and charging a phone 160 times.



APP SMART FERNBEDIENUNG

Überwachen, steuern und optimieren Sie Ihren Stromverbrauch mit der ALLPOWERS-App.

Image: The ALLPOWERS R2500 powering various outdoor tools, such as a hammer drill (1500W for 1.1 hours), grinder (1400W for 1.2 hours), lawnmower (1300W for 1.3 hours), and welding machine (1800W for 50 minutes), illustrating its utility for outdoor work.

7. SMART CONTROL FUNCTION

The ALLPOWERS R2500 can be controlled and monitored via the ALLPOWERS APP using Wi-Fi or Bluetooth connectivity.



Image: A smartphone displaying the ALLPOWERS app interface, showing power monitoring, function settings, and remote control capabilities for the R2500, with Bluetooth and Wi-Fi icons indicating connectivity.

Eco Mode

The app allows you to activate Eco Mode, which extends standby time and minimizes battery degradation, helping to save energy costs.



Image: A smartphone screen showing the ALLPOWERS app's Eco Mode settings, allowing users to configure standby time to save energy and optimize battery life.

8. UPS FUNCTION (UNINTERRUPTIBLE POWER SUPPLY)

The R2500 features a UPS function with a switching time of less than 15 milliseconds, ensuring continuous power for sensitive devices during sudden power outages.

SORGEN SIE FÜR KONTINUIERLICHE LEISTUNG

Die USV Funktion liefert ununterbrochen Strom mit einer Umschaltzeit von weniger als **15 ms**



Image: A family watching TV, with the ALLPOWERS R2500 connected, illustrating its Uninterruptible Power Supply (UPS) function providing continuous power with a switchover time of less than 15ms.



Image: The ALLPOWERS R2500 acting as a UPS backup for a desktop computer setup, ensuring uninterrupted power supply for critical electronics.

9. MAINTENANCE

Battery Care

The R2500 uses a LiFePO4 battery, known for its long lifespan. It maintains over 80% capacity after 3500 charge cycles and over 50% after 6500 cycles, ensuring more than 10 years of use.



The image shows an exploded view of the ALLPOWERS R2500 battery unit. The unit is black and rectangular, with a top cover and a front panel. The internal components, including the battery cells and cooling fans, are visible. A green shield-shaped badge with the number '6' and the text 'Jahre Garantie' is positioned to the right of the unit. The background is dark with a circuit board pattern.

HALTEN SICHER ÜBER 10 JAHRE

LiFePO4 Batterien | Über **3500** ZYKLEN

6
Jahre
Garantie

Image: An exploded view of the ALLPOWERS R2500 highlighting its internal LiFePO4 battery, emphasizing its lifespan of over 10 years and more than 3500 charge cycles, along with a '6 Jahre Garantie' (6-year warranty) badge.



Image: An internal diagram of the ALLPOWERS R2500, showcasing the LiFePO4 battery cells and the Battery Management System (BMS), indicating a lifespan of over 10 years and more than 3500 safe cycles.

The integrated Battery Management System (BMS) protects against over-voltage, over-current, and over-temperature, ensuring safe operation.

Storage

Store the power station in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge the unit to 50-80% every 3-6 months to maintain battery health.

Cleaning

Wipe the exterior with a dry, soft cloth. Do not use abrasive cleaners or immerse the unit in water.

10. TROUBLESHOOTING

- **Unit not turning on:** Ensure the power button is pressed firmly. Check if the battery is completely depleted and try charging it.
- **No output from ports:** Verify that the specific output (AC/DC/USB) is activated. Check the device you are trying to power for proper function.
- **Slow charging:** Ensure all charging cables are securely connected. For solar charging, confirm panels are in direct sunlight and clean. Check the input wattage on the display.
- **Overload warning:** If an overload warning appears, disconnect some devices to reduce the total power draw. The unit will automatically shut down to prevent damage.
- **App connectivity issues:** Ensure Wi-Fi or Bluetooth is enabled on your device and the power station. Try restarting both the app and the power station.

11. SPECIFICATIONS

Feature	Specification
Model	R2500-EU
Battery Type	LiFePO4

Capacity	2016 Wh
AC Output	4 x 230V, 2500W (Pure Sine Wave, Peak 4000W)
USB-C Output	2 x 100W
USB-A Output	4 x (various wattages, e.g., 12W, 36W)
DC5525 Output	2 x
Car Cigarette Lighter Output	1 x 12V/10A
Charging Input	AC, Solar, Car
Fast Charging Time	1 hour (0-100% with combined input)
Battery Cycle Life	3500+ cycles to >80% capacity, 6500+ cycles to >50% capacity
Dimensions	45.6 x 36 x 34.6 cm
Weight	29 kg
Special Features	UPS Function (<15ms), Smart App Control (Wi-Fi/Bluetooth)









Image: Diagram showing the dimensions of the ALLPOWERS R2500 Portable Power Station: 45.6 cm (length), 36 cm (width), and 34.6 cm (height).

12. WARRANTY AND SUPPORT

The ALLPOWERS R2500 Portable Power Station comes with a **6-year warranty**. For technical support, warranty claims, or any product-related inquiries, please contact ALLPOWERS customer service through their official website or the retailer where the product was purchased. Please have your purchase receipt and

product model number (R2500) ready when contacting support.

Related Documents - R2500

	<p>ALLPOWERS R2500 Portable Power Station User Manual and Guide</p> <p>Comprehensive guide for the ALLPOWERS R2500 Portable Power Station, covering safety instructions, specifications, user guide, app operation, FAQs, and troubleshooting.</p>
	<p>ALLPOWERS R2500 Portable Power Station User Manual</p> <p>Comprehensive user manual for the ALLPOWERS R2500 Portable Power Station, detailing safety instructions, specifications, usage guide, app connectivity, troubleshooting, and FAQs. Learn about charging, power management, and product features.</p>
	<p>ALLPOWERS R2500: Manuale Utente Stazione di Alimentazione Portatile</p> <p>Guida completa per la stazione di alimentazione portatile ALLPOWERS R2500. Include istruzioni di sicurezza, specifiche tecniche, guida all'uso dell'app, FAQ e risoluzione dei problemi.</p>
	<p>ALLPOWERS R2500 Portable Power Station User Manual</p> <p>Comprehensive user manual for the ALLPOWERS R2500 Portable Power Station, detailing specifications, operation, charging, troubleshooting, and app connectivity.</p>
	<p>ALLPOWERS B3000 Extra Battery User Manual and Guide</p> <p>Comprehensive user manual for the ALLPOWERS B3000 portable power station. Learn about its features, specifications, safety guidelines, app connectivity, and troubleshooting. Ideal for camping, emergencies, and off-grid power.</p>
	<p>ALLPOWERS R2500 Portable Power Station User Manual & Specifications</p> <p>Discover the ALLPOWERS R2500 Portable Power Station: a comprehensive user manual covering safety, specifications, charging, UPS, smart battery, APP control, troubleshooting, and FAQs for this 2016Wh LiFePO4 solar generator.</p>