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› POWXS Universal Battery Charger Instruction Manual

POWXS R4

POWXS Universal Battery Charger Instruction Manual

Model: R4 | Brand: POWXS

1. INTRODUCTION

Thank you for choosing the POWXS Universal Battery Charger. This intelligent charger is designed to provide efficient and safe charging for a wide variety of rechargeable batteries. With its advanced features, including an LCD display and multiple safety protections, it ensures optimal performance and extends the lifespan of your batteries. Please read this manual thoroughly before use to ensure proper operation and safety.

2. WHAT'S IN THE BOX

- POWXS Universal Battery Charger
- User Manual
- AC Charging Cable
- AAA Battery Holder



Image: Contents of the POWXS Universal Battery Charger package.

3. PRODUCT FEATURES

- **Universal Battery Compatibility:** Compatible with 3.7V lithium batteries (21700, 20700, 18650, 16650, 16340(rcr123), 14500, 10440), 3.2V LiFePO4, and 1.2V Ni-MH/Ni-Cd (AA, AAA, AAAA, SC) rechargeable batteries.
- **Fast Charging with Adjustable Output:** Four independent bays, each allowing current selection (250/500/800/1000/1999mA). Max 1999mA for fast charging 3.7V batteries (Note: 1999mA only for lithium battery in C1 channel when C2 has no battery).
- **Capacity and Voltage Testing:** Automatically distinguishes voltage and displays it on the LCD screen. Can also test the real capacity of your rechargeable household batteries.
- **Smart LCD Display:** Shows real-time voltage, current, time, charging progress, and allows switching battery type by short pressing "SLOT" for each channel.
- **Comprehensive Safety Assurance:** Meets UL Test standards with an intelligent microcomputer control system, providing protection against over-voltage, over-charging, over-current, short circuit, and reverse connection.



Image: Overview of the multi-function charger's capabilities.

4. SETUP

Before using your POWXS Universal Battery Charger, please follow these simple steps:

1. Unpack the charger and all included accessories from the box.
2. Connect the provided AC charging cable to the charger's power input port and then plug it into a standard 110V AC wall outlet. The LCD display will illuminate, indicating the charger is ready for use.
3. Alternatively, you can power the charger using a 12V DC power source (adapter not included) by plugging it into the barrel jack on the side.



Image: The POWXS charger connected to power.

5. OPERATING INSTRUCTIONS

5.1. Battery Compatibility

The POWXS charger is designed for wide compatibility with various battery types and sizes. It supports 3.7V lithium batteries (21700, 20700, 18650, 16650, 16340(rcr123), 14500, 10440), 3.2V LiFePO4, and 1.2V Ni-MH/Ni-Cd (AA, AAA, AAAA, C) rechargeable batteries. The spring-loaded contacts in each bay accommodate different battery lengths.



Image: Visual representation of the charger's wide battery compatibility.

5.2. Charging Process

To begin charging, simply insert your rechargeable battery into one of the four independent charging bays. Ensure the positive (+) and negative (-) terminals of the battery align correctly with the charger's markings. The charger will automatically detect the battery type (Li-ion, LiFePO4, Ni-MH/Ni-Cd) and initiate the appropriate charging mode. The LCD display will show real-time charging information.

Your browser does not support the video tag. Please update your browser to view this content.

Video: Demonstrates the POWXS 18650 Battery Charger with Testing Functions in operation, showing battery insertion and display feedback.

5.3. Adjusting Charging Speed

Each of the four independent bays allows you to select the charging current. You can choose from 250mA, 500mA, 800mA, 1000mA, or up to 1999mA. To adjust the current for a specific slot, short press the "SLOT" button to select

the desired channel, then press the "MODE" button to cycle through the available current options. The 1999mA fast charging option is specifically suited for lithium batteries in the C1 channel when no battery is present in the C2 channel.



Image: Illustration of adjustable charging speeds per slot.

5.4. Smart LCD Display

The integrated LCD display provides comprehensive real-time information for each charging channel. You can view the current charging condition, real-time voltage, optional charging speed, battery type, discharge mode, and discharge time/capacity. Short press the "SLOT" button to switch between viewing the corresponding information for channels C1, C2, C3, and C4.



Image: Detailed view of the smart LCD display and its indicators.

5.5. Capacity Test Mode

The universal 18650 battery charger can test the real capacity of your rechargeable household batteries. This function typically involves a charge-discharge-fully charge cycle (often available on a specific slot like C4). Refer to the LCD display for the measured capacity in mAh.



Image: Illustration of the capacity test mode.

5.6. 0V Battery Activation

The charger features a 0V battery activation function. This allows it to activate over-discharged batteries and restore low voltage lithium-ion batteries, potentially extending their overall lifespan. Simply insert the 0V battery into a charging slot, and the charger will attempt to revive it.



Image: The charger's ability to stimulate 0V batteries.

6. SAFETY GUIDELINES

The POWXS R4 3.7V battery charger is designed with multiple safety features to ensure safe operation:

- **Short-Circuit Protection:** Prevents damage from accidental short circuits.
- **Over-Current Protection:** Safeguards against excessive current flow.
- **Reversal Protection:** Protects against incorrect battery polarity.
- **Over-Heat Protection:** Monitors temperature to prevent overheating.
- **Over-Charge Protection:** Stops charging once batteries reach full capacity.
- **Over-Voltage Protection:** Regulates voltage to prevent damage from voltage spikes.

Always use the charger in a well-ventilated area. Do not attempt to charge non-rechargeable batteries. Keep out of reach of children. Disconnect the charger from the power source when not in use.



Image: Overview of the charger's built-in security guarantees.

7. MAINTENANCE

To ensure the longevity and optimal performance of your POWXS Universal Battery Charger, follow these maintenance tips:

- **Cleaning:** Regularly wipe the charger's exterior with a soft, dry cloth. Avoid using abrasive cleaners or solvents. Ensure no dust or debris accumulates in the charging bays.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight, extreme temperatures, and humidity when not in use.
- **Handling:** Handle the charger with care. Avoid dropping it or subjecting it to strong impacts, which could damage internal components.

8. TROUBLESHOOTING

If you encounter any issues with your POWXS Universal Battery Charger, please refer to the following common troubleshooting steps:

- **Charger Not Powering On:** Ensure the AC charging cable is securely plugged into both the charger and a working wall outlet. Check if the outlet has power.
- **Battery Not Charging:** Verify that the battery is inserted correctly with the correct polarity (+/-). Ensure the battery is rechargeable and not severely damaged. The charger may attempt to activate 0V batteries, but some may be beyond recovery.
- **Incorrect Battery Type Detected:** While the charger has automatic detection, occasionally a battery might be misidentified. Ensure the battery is clean and properly seated. If issues persist, try another slot.
- **Overheating:** If the charger or batteries feel excessively hot, immediately disconnect them. Ensure adequate ventilation around the charger. Avoid charging in direct sunlight or confined spaces.

If the problem persists after trying these steps, please contact POWXS customer support for further assistance.

9. SPECIFICATIONS

Feature	Specification
Model Number	R4

Brand	POWXS
Package Dimensions	7.01 x 6.18 x 1.93 inches
Item Weight	14.89 ounces
Input Voltage	110 Volts (AC)
Output Voltage	3.7 Volts
Color	Black
Safety Certification	UL Compliant

10. WARRANTY AND SUPPORT

POWXS products are manufactured to the highest quality standards. For warranty information, technical support, or any inquiries regarding your charger, please refer to the contact information provided on the product packaging or visit the official POWXS website. Keep your purchase receipt as proof of purchase for warranty claims.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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