

LIMETA R4 Air

LIMETA R4 Air Universal Battery Charger User Manual

Model: R4 Air

1. INTRODUCTION

The LIMETA R4 Air is a versatile 4-bay universal battery charger designed for a wide range of rechargeable batteries. It features a unique 6-slot design supporting both vertical and horizontal charging, independent slot operation, USB Type-C input with QC/PD fast charging, and mobile app integration for enhanced control and monitoring. This manual provides essential information for safe and efficient use of your R4 Air charger.

2. SAFETY INFORMATION

- Use the charger only with compatible rechargeable batteries as specified in this manual.
- Do not attempt to charge non-rechargeable batteries. This may lead to explosion, rupture, or leakage, causing personal injury or property damage.
- Ensure correct battery polarity (+/-) when inserting batteries into the charger.
- Do not disassemble, modify, or short-circuit the charger.
- Avoid exposing the charger to water, high humidity, or extreme temperatures.
- Keep the charger out of reach of children.
- Unplug the charger from the power source when not in use or before cleaning.

3. PACKAGE CONTENTS

- LIMETA R4 Air Universal Battery Charger

- USB Type-C Charging Cable
- User Manual (this document)

4. PRODUCT OVERVIEW

The R4 Air charger features a compact design with six independent charging slots. It supports various battery chemistries and sizes, offering flexible charging speeds depending on the slot orientation.



Image: The LIMETA R4 Air charger shown with four AA/AAA batteries inserted into the horizontal slots. The charger is black with green indicator lights.

Open the Polying App



and update to the latest **V2.0** version firmware to optimize 1.5V Li-ion battery charging; enhance nickel-metal hydride (NiMH) battery charging!

Image: The LIMETA R4 Air charger displayed next to its included USB-C charging cable, highlighting the charger's compact size and connectivity.

4.1 Key Features

- **Flexible 6-Slot Design:** Accommodates both vertical and horizontal battery orientations. Each slot operates independently.
- **Dual Charging Speeds:** Vertical slots deliver up to 4A, while horizontal slots provide up to 2A.
- **Universal Compatibility:** Supports a wide range of battery types and sizes, including AA, AAA, 10440, 18650, 21700, and 26700.
- **USB Type-C Input:** Supports QC/PD fast charging protocols with a maximum input power of 40W.
- **Mobile App Integration:** Connects wirelessly to an intuitive mobile app for monitoring and control.
- **Over-The-Air (OTA) Updates:** Ensures the charger stays updated with the latest features and optimizations.
- **Intuitive Status Indicators:** Clear audio and visual alerts for standby, charging, completion, and issues.

6-Slot horizontally or vertically Independent Charging



Image: A visual representation of the R4 Air charger's flexible design, showing how batteries can be inserted horizontally (e.g., AA/AAA) or vertically (e.g., 18650/21700) into its independent slots.

5. SETUP

5.1 Connecting to Power

1. Connect the provided USB Type-C cable to the input port on the LIMETA R4 Air charger.
2. Connect the other end of the USB Type-C cable to a compatible USB power adapter (not included), a computer, or a power bank. Ensure the power source supports QC/PD fast charging for optimal performance.
3. The charger will power on, and indicator lights will show its standby status.



Image: The R4 Air charger connected to a laptop via a USB Type-C cable, demonstrating its versatile power input options.

5.2 Mobile App Installation (Optional)

For enhanced control and monitoring, download the companion mobile application. Refer to the packaging or product information for the specific app name (e.g., Polying App or ISDLink app).

1. Search for the app on your smartphone's app store (iOS App Store or Google Play Store).
2. Install the application on your device.
3. Follow the in-app instructions to pair your charger via Bluetooth.

App Connection For Real-time Monitoring



Image: A smartphone displaying the prompt to 'Open the Polying App', positioned next to the LIMETA R4 Air charger, illustrating the app integration feature.

6. OPERATING INSTRUCTIONS

6.1 Inserting Batteries

- **Horizontal Slots:** Designed for smaller batteries like AA and AAA. Insert up to four batteries, ensuring correct polarity. These slots provide up to 2A charging current.
- **Vertical Slots:** Designed for larger batteries such as 18650, 21700, 26650, and 26700. Insert up to two batteries, ensuring correct polarity. These slots deliver up to 4A charging current.
- The charger automatically detects the battery type and initiates charging.

6.2 Monitoring Charging Status

- **Indicator Lights:** The LED indicators on the charger provide visual feedback:
 - Solid Green: Charging complete.
 - Flashing Green: Charging in progress.
 - No Light: Standby or no battery detected.
 - Red Light (or specific pattern): Error or issue detected.
- **Audible Alerts:** The charger provides audio notifications for battery detection, charging completion, and potential issues.
- **Mobile App:** For detailed real-time monitoring, open the connected mobile app. It displays individual battery status, charge current, voltage, capacity, and more.



Image: The R4 Air charger actively charging batteries, with a smartphone displaying the detailed charging status for each battery via the mobile application.

6.3 Firmware Updates (OTA)

The R4 Air supports Over-The-Air (OTA) firmware updates to ensure optimal performance and compatibility with new battery types or features. When connected to the mobile app, you will be notified if a new firmware version is available. Follow the app's instructions to perform the update.



Image: The R4 Air charger connected to a laptop, while a smartphone displays a firmware update progress screen, indicating the Over-The-Air (OTA) update capability.

7. MAINTENANCE

- **Cleaning:** Disconnect the charger from power before cleaning. Use a soft, dry cloth to wipe the surface. Do not use abrasive cleaners or solvents.

- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the charger and USB cable for any signs of damage. Do not use if damaged.

8. TROUBLESHOOTING

- **Charger not powering on:** Ensure the USB Type-C cable is securely connected to both the charger and a functional power source. Try a different USB port or power adapter.
- **Battery not charging:** Check that the battery is inserted with correct polarity. Ensure the battery is a compatible rechargeable type. Clean battery contacts if necessary.
- **App connection issues:** Ensure Bluetooth is enabled on your smartphone. Restart the app and the charger. Try re-pairing the device within the app settings.
- **Slow charging:** Verify that your power adapter supports QC/PD fast charging protocols and provides sufficient wattage (up to 40W).

9. SPECIFICATIONS

Feature	Specification
Model	R4 Air
Input Voltage	12 Volts (USB Type-C, QC/PD compatible)
Max Input Power	40W
Vertical Slot Charging Current	Up to 4A
Horizontal Slot Charging Current	Up to 2A
Supported Battery Types	AAA, AA, 10440, 10500, 12500, 13500, 14500, 14650, 16650, 17650, 17670, 18650, 18700, 20650, 20700, 21700, 22650, 26650, 26700
Product Dimensions	4.17 x 2.87 x 1.14 inches (10.59 x 7.29 x 2.90 cm)
Item Weight	4 ounces (0.12 Kilograms)
Connectivity	Bluetooth for App Integration

10. WARRANTY AND SUPPORT

LIMETA products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact details provided on the product packaging or the official LIMETA website. Keep your purchase receipt as proof of purchase for warranty claims.

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