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Portronics AA Lithius Type C Rechargeable Batteries User Manual

1. INTRODUCTION

Thank you for choosing Portronics AA Lithius Type C Rechargeable Batteries. These batteries are designed for modern convenience, offering a built-in USB Type-C port for direct charging. With a 1.5V / 1480mAh capacity (2220mWh energy), they provide high performance and consistent output for a wide range of devices. This manual provides essential information for the safe and efficient use of your new rechargeable batteries.

2. SAFETY INFORMATION

Please read and understand all safety instructions before using the batteries. Failure to follow these instructions may result in fire, electric shock, or injury.

- Do not disassemble, crush, puncture, or short-circuit the batteries.
- Do not expose batteries to extreme temperatures (above 60°C/140°F or below -20°C/-4°F) or direct sunlight.
- Do not immerse batteries in water or other liquids.
- Keep batteries away from children and pets.
- Use only compatible Type-C charging cables and power sources (DC 5V/0.5A).
- If a battery leaks, swells, or emits an odor, discontinue use immediately and dispose of it properly.
- Do not mix new and old batteries, or different types of batteries.
- Ensure correct polarity (+/-) when inserting batteries into devices.

Leak Proof Design

Withstands Pressure Without Bursting



Figure 2.1: Advanced Multi-Layer Protection features of the Lithius Cell battery, including fireproof shell, short-circuit, surge, over-voltage, and overheating protection.

Low Self-Discharge

Long Lasting Power Supply

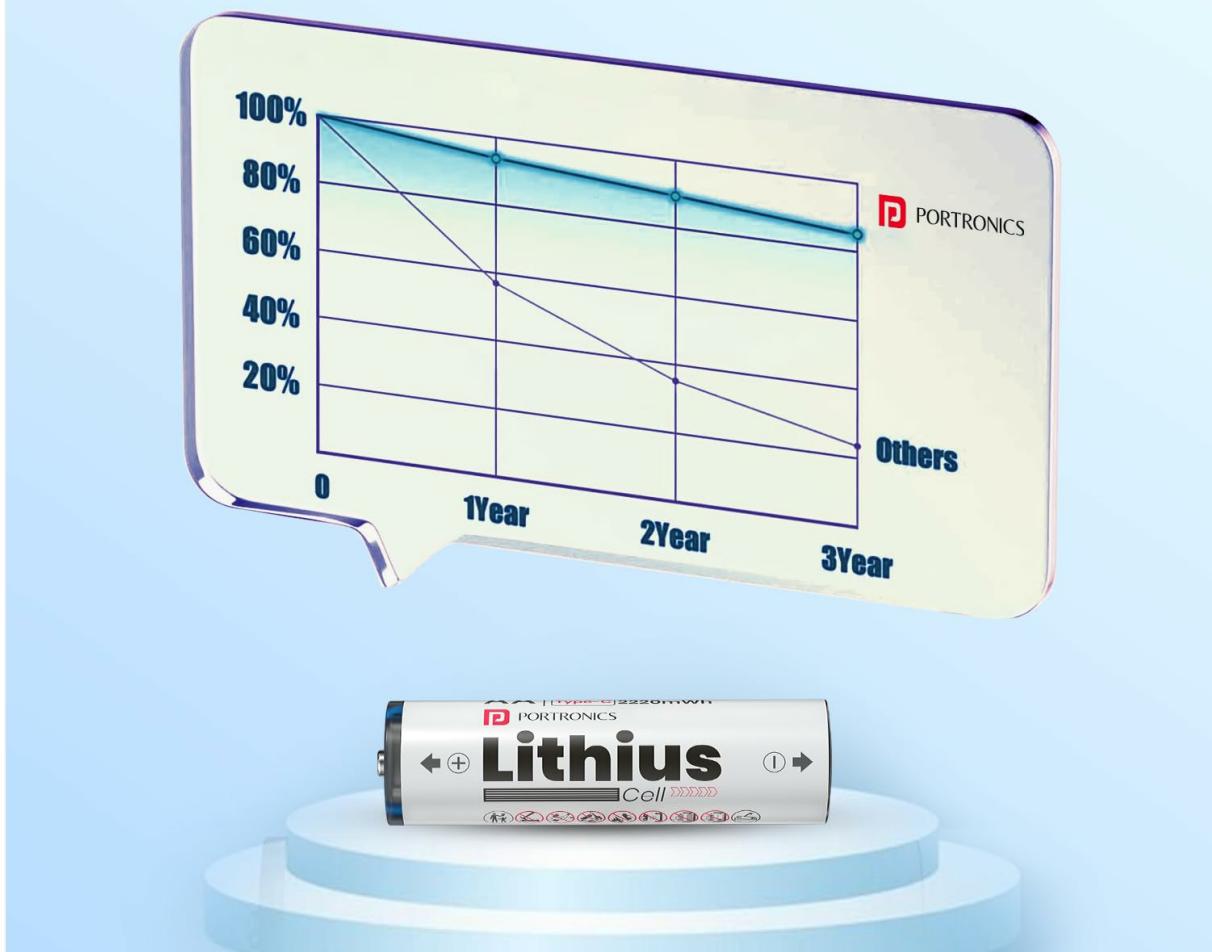


Figure 2.2: Leak-Proof Design elements of the Lithius Cell battery, featuring a short-circuit guard, pressure relief valve, dual-lock ring, and reinforced steel shell.

3. PRODUCT OVERVIEW

The Portronics AA Lithius Cell is a high-capacity lithium-ion rechargeable battery designed for convenience and durability. Key features include:

- Built-in Type-C Charging:** Eliminates the need for a separate charger.
- High Capacity:** 1.5V / 1480mAh (2220mWh) for long-lasting power.
- Low Self-Discharge:** Maintains charge for extended periods during storage.
- Enhanced Safety:** Over-current and over-discharge protection.
- Wide Compatibility:** Suitable for various AA-powered devices.

4. SETUP

4.1 Initial Charging

Before first use, fully charge your Portronics Lithius Cell batteries.

1. Locate the USB Type-C port on the side of the battery.

2. Connect a standard USB Type-C charging cable (DC 5V/0.5A) to the battery port.
3. Plug the other end of the cable into a compatible USB power source (e.g., wall adapter, computer USB port, car charger).
4. The blue indicator light on the battery will blink during charging.
5. Once fully charged, the blue indicator light will become stable (solid).
6. Disconnect the charging cable.



Figure 4.1: Direct Type-C charging of the Lithius Cell battery, eliminating the need for external chargers.

Charge. Reuse. Repeat

Power up sustainably – designed to recharge, reuse, and reduce waste



Figure 4.2: Visual guide to charging the Lithius Cell batteries, demonstrating charging via various USB sources and explaining the blue light indicators for charging status.

4.2 Battery Installation

After charging, insert the batteries into your device:

1. Open the battery compartment of your device.
2. Observe the polarity markings (+ and -) inside the compartment.
3. Insert the Lithius Cell batteries, matching the battery's positive (+) and negative (-) terminals with the device's markings.
4. Close the battery compartment securely.

5. OPERATING INSTRUCTIONS

The Portronics AA Lithium Cell batteries are designed to power a wide array of devices that typically use standard AA batteries. Their consistent 1.5V output ensures optimal performance for most electronics.

Advanced Multi-Layer Protection



Fireproof Shell &
intelligent Protection



Short-Circuit
Protection



Surge
Protection



over-voltage
Protection



Overheating
Protection



Figure 5.1: Wide compatibility of Lithius Cell batteries with common household and electronic devices.

Compatible devices include, but are not limited to:

- Wireless keyboards and mice
- Cameras
- Torches and flashlights
- Remote controls (TV, AC, etc.)
- Remote-control cars and toys
- Gaming controllers
- Lamps and alarm clocks
- Electric brushes and other small appliances

6. MAINTENANCE

6.1 Storage

Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. The Lithius Cell features Low Self-Discharge technology, allowing it to retain up to 80% of its charge even after months of non-use.

Charging Made Crystal Clear



1. Blue Lights Blinks = Charging Mode.
2. Blue Light Stable = Fully Charged.



Figure 6.1: Low Self-Discharge performance of Lithius Cell batteries over time.

6.2 Cleaning

If necessary, clean the battery terminals with a dry, clean cloth to ensure good contact with your device.

6.3 Charging Cycles

For optimal battery life, avoid completely draining the batteries before recharging. Regular charging helps maintain battery health.

7. TROUBLESHOOTING

If you encounter issues with your Portronics Lithius Cell batteries, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Battery not charging	Loose cable connection, faulty cable/adapter, dirty charging port	Ensure cable is securely connected. Try a different Type-C cable or USB power source. Clean the charging port gently.

Problem	Possible Cause	Solution
Device not powering on	Battery not charged, incorrect polarity, device issue	Charge the battery fully. Check battery orientation (+/-). Test the device with other known-good batteries.
Short battery life	High-drain device, battery degradation, incomplete charge	Ensure battery is fully charged. For high-drain devices, battery life will naturally be shorter. Consider replacing old batteries if degradation is significant.
Battery gets warm during charging/use	Normal operation, excessive load, faulty battery	Slight warmth is normal. If it becomes excessively hot, discontinue use and charging immediately. Contact support if warmth is unusual or extreme.

8. SPECIFICATIONS

Detailed technical specifications for the Portronics AA Lithium Type C Rechargeable Batteries:

Feature	Detail
Brand	Portronics
Model	POR-2509
Model Name	Lithium Cell
Battery Type	Lithium Ion
Size	AA
Capacity	1480mAh (2220mWh)
Output Voltage	1.5V (DC 1.5V/2A max)
Input Voltage/Current	DC 5V/0.5A
Connector Type	USB Type-C (built-in)
Product Dimensions (LxWxH)	7.8 x 5.9 x 1.9 cm
Item Weight	57 g
Special Features	Durable & Cost Effective Cell, Low Self Discharge, Over-Current Protection, Over-Discharge Protection
Compatible Devices	Remote, Torch, Wireless keyboard, Camera, Remote-control cars, Wireless mouse, Lamps, Alarm clocks, Electric brushes, Gaming controllers
Country of Origin	China

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the product packaging or visit the official Portronics website. You can also contact Portronics customer service directly:

- Email: help@portronics.com
- Phone: +91 9555-245-245

10. DISPOSAL INFORMATION

These batteries contain materials that should not be disposed of with regular household waste. Please dispose of them responsibly at designated recycling centers. Proper disposal helps prevent potential negative consequences for the environment and human health.



Figure 10.1: Emphasizing the sustainable and reusable nature of Lithium Cell batteries, promoting proper recycling and waste reduction.