

PB3 PB4

User Manual: Generic 1000mAh Li-ion Polymer Replacement Battery

Model: PB3 PB4

1. PRODUCT OVERVIEW

This manual provides instructions for the Generic 1000mAh Li-ion Polymer replacement battery, designed for various Aiwa music players. This battery features a 0-cycle design, high capacity, and multiple safety mechanisms to ensure reliable performance.

Compatible with Aiwa models including PB3, PB4, jx729, jx629, jx202, jx303, jx505, px370, jx609, p50, jx2000, px30, px50, rl30, rl75, and ps3.

2. SETUP AND INSTALLATION

2.1 Pre-Installation Check

Before proceeding with installation, verify that the battery model (PB3 PB4) is compatible with your specific Aiwa music player. Refer to your device's original manual for battery specifications.

2.2 Battery Installation

Installation of the replacement battery typically involves opening the device's battery compartment, carefully removing the old battery, and inserting the new battery. Ensure correct polarity and secure placement. If you are unsure about the installation process, consult a qualified technician or refer to your device's specific service manual. Improper installation can damage the device or the battery.

3. OPERATING INSTRUCTIONS

3.1 Initial Battery Activation

After installing the new battery, it is crucial to activate its properties for optimal performance. Follow these steps:

1. Completely discharge the battery until the device powers off.
2. Using the original charger, charge the battery for 8 hours without interruption.
3. Repeat steps 1 and 2 for 3 to 5 cycles. This process helps to calibrate the battery and achieve its best use effect.

3.2 Charging Guidelines

For efficient and safe charging, always use the original charger and data cable provided with your music player. The battery supports intelligent fast charging technology, which automatically matches the optimal

current and can increase charging speed by up to 30%. When fully charged, the battery's internal circuitry will automatically cut off power to prevent overcharging and swelling.

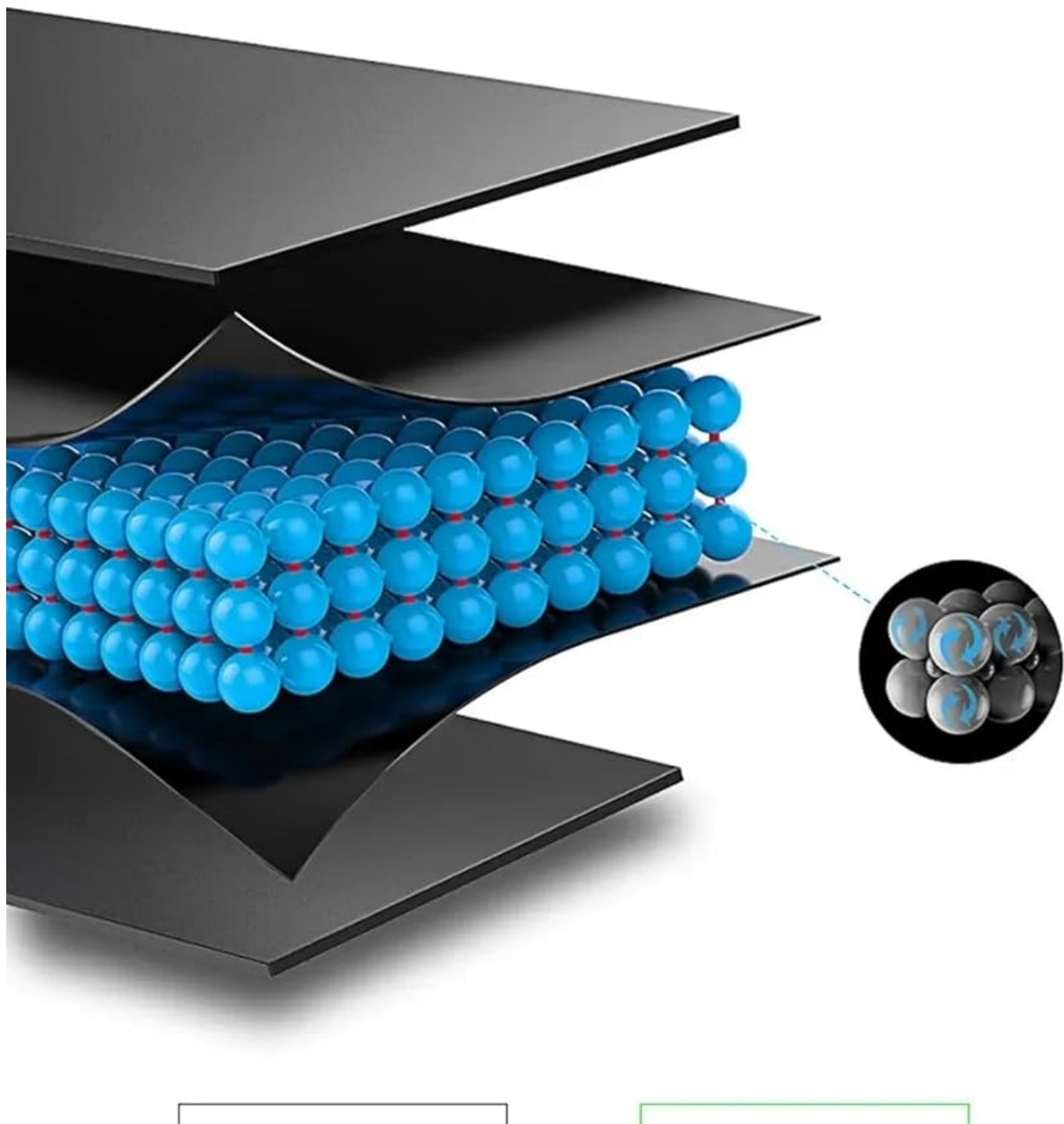
Performance improvement

Double Li-ion for KiKiss battery than other's single Li-ion battery, means higher conversion ,faster charging speed, Longer usage time.....

30%
faster charging speed

95%
high conversion

2 times
usage time



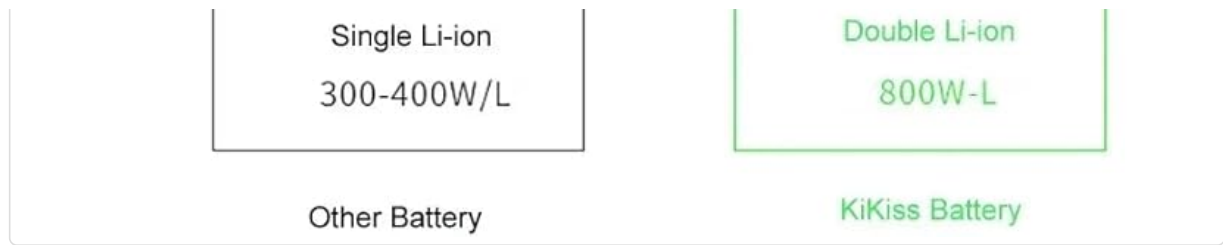


Figure 3.1: Performance improvement with double Li-ion technology, leading to faster charging and higher conversion efficiency.

3.3 Safety Features

This battery is equipped with advanced safety features, including insulating separators and integrated IC smart chips. These mechanisms provide:

- Overcharge protection
- Over-discharge protection
- Short-circuit protection
- Thermal management systems

In high-temperature environments, the battery automatically reduces frequency or cuts off power to prevent damage. The operating temperature range is from -20°C to 60°C.



Figure 3.2: Internal battery structure highlighting the intelligent IC core for enhanced safety and over-voltage protection.

Short Circuit Protection

4 memory metal fuse, self repair automatic when normal temperature, no short circuit, no fire, no blast. safe and security.

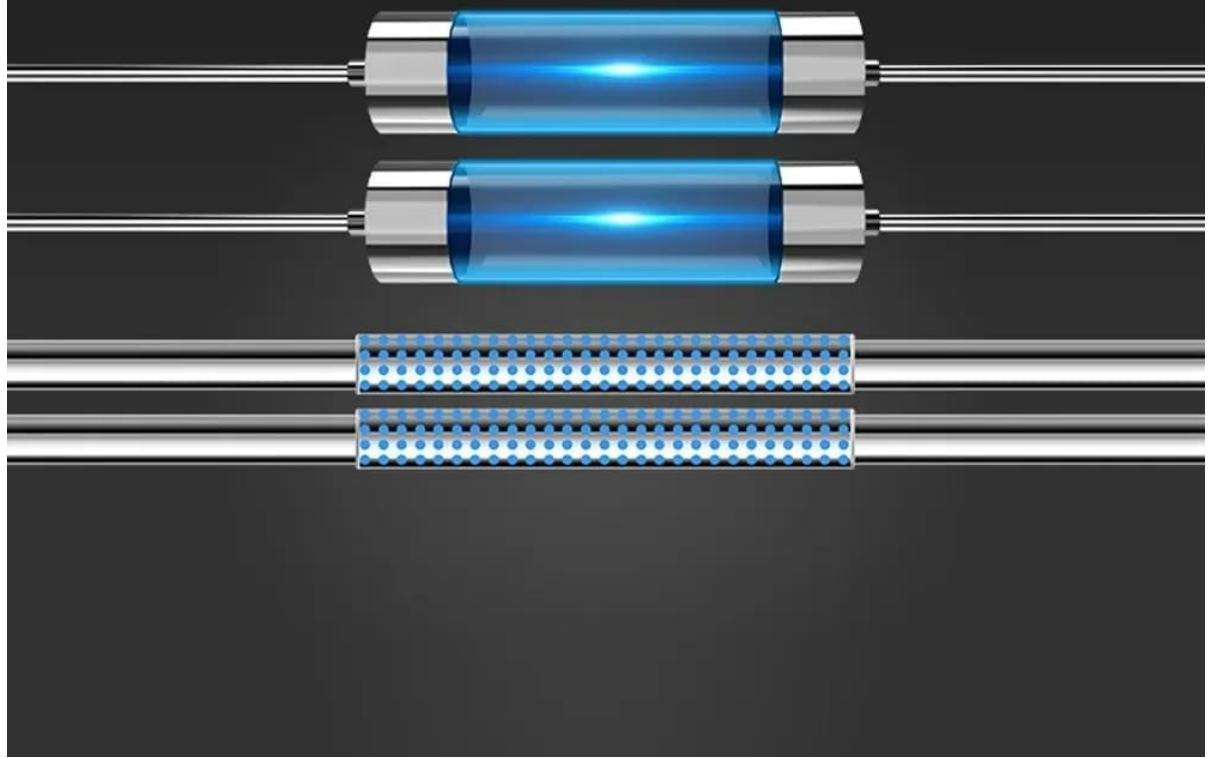


Figure 3.3: Short circuit protection mechanism utilizing memory metal fuses that self-repair at normal temperatures, preventing fire or blast.

4. MAINTENANCE AND BATTERY LIFE OPTIMIZATION

Proper care and maintenance can significantly extend the lifespan and performance of your battery. Adhere to the following suggestions:

- **Avoid Over-Discharge:** Do not allow the battery to fully deplete or remain idle for extended periods, as this can lead to expansion and reduced capacity.
- **Maintain Charge Level:** Keep the battery level within the range of 20% to 80% for long-term health. Charge the battery if its level drops below 20%.
- **Avoid Usage While Charging:** Refrain from using your music player or other devices while the battery is charging. This practice can shorten battery life and pose safety risks.
- **Temperature Control:** Exposure to low temperatures can cause battery swelling. Operate and store the battery within the recommended temperature range of -20°C to 60°C .

- **Use Quality Chargers:** Always use the original or a certified high-quality charger. Inferior chargers can damage the battery.
- **Do Not Overcharge:** Once the battery is fully charged, disconnect it from the charger. Leaving it connected for too long can negatively impact its lifespan.
- **Do Not Modify:** Never disassemble or attempt to modify the battery structure.
- **Preserve Labels:** Do not tear off the battery label, as it contains important product information and safety warnings.



Figure 4.1: Visual comparison illustrating the difference in power retention between a new, healthy battery and an aged battery.

4.1 Cycle Life and Durability

This battery utilizes A-class lithium-ion/polymer cells, offering high energy density and a long cycle life. It is designed to withstand 800 to 1000 charge and discharge cycles while retaining up to 80% of its original capacity. This ensures prolonged usability without significant degradation in performance.

5. TROUBLESHOOTING

If you experience issues with your battery, consider the following general troubleshooting steps:

- **Battery Not Charging:** Ensure the charger and cable are functioning correctly and securely connected. Verify the power source is active.
- **Short Battery Life:** Review the "Maintenance and Battery Life Optimization" section. Ensure you are following recommended charging and usage practices.
- **Device Not Powering On:** Confirm the battery is correctly installed and has sufficient charge. If the issue persists, the problem may lie with the device itself rather than the battery.

For persistent issues, consult the service manual for your specific music player or contact customer support.

6. SPECIFICATIONS

| Feature | Specification |
|-----------------------------|--|
| Battery Model | PB3 PB4 |
| Battery Capacity | 1000 mAh |
| Battery Cell Composition | Li-ion Polymer |
| Item Weight | 2.29 ounces (approx. 64.9 g) |
| Package Dimensions | 3.94 x 3.94 x 1.54 inches (approx. 10 x 10 x 3.9 cm) |
| Operating Temperature Range | -20°C to 60°C (-4°F to 140°F) |
| Cycle Life | 800 to 1000 cycles (retains up to 80% capacity) |

7. WARRANTY AND SUPPORT

Information regarding specific warranty terms and customer support contacts is not provided in this manual. Please refer to the product packaging or the retailer's website for warranty details and support options.