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Hixon J818

Hixon 1.5V AA Rechargeable Lithium Batteries User Manual

Model: J818

INTRODUCTION

Thank you for choosing Hixon 1.5V AA Rechargeable Lithium Batteries. These high-capacity batteries are designed to provide reliable and consistent power for a wide range of household and electronic devices. Featuring 3500mWh (2333mAh) energy and a constant 1.5V output, they offer superior performance and longevity compared to traditional Ni-MH batteries. This manual provides essential information on setup, operation, maintenance, and safety to ensure optimal use of your Hixon batteries.



Image: Hixon 1.5V AA Rechargeable Lithium Batteries (12-Pack)

SETUP AND FIRST USE

Charging the Batteries

Before first use, it is recommended to fully charge your Hixon AA lithium batteries. These batteries are designed for fast charging, reaching full capacity within approximately 2 hours when using a compatible Hixon AA charger (charger not included with this pack). Ensure the batteries are inserted correctly into the charger, observing polarity (+/-) markings.

Multiple Protection Technology

Advanced MCU control and–AV function over–heat and over–current protection,short–circuit protection and defective battery detectio.



Short Circuit Protection



Over Charge Protection



Over current Protection



Over Heat Protection



Over Voltage Protection



Image: Hixon AA Batteries in Charger

OPERATING INSTRUCTIONS

Battery Installation

Insert the Hixon AA batteries into your device according to the polarity indicators (+ and -) within the battery compartment. Incorrect installation can prevent the device from functioning or cause damage.

Constant 1.5V Output

A key advantage of Hixon lithium-ion batteries is their constant 1.5V output throughout their discharge cycle. Unlike traditional Ni-MH batteries, which experience a voltage drop as they discharge, Hixon batteries maintain a stable voltage from 100% down to 0% capacity. This ensures consistent performance for your devices, providing a 'fresh battery' experience at all times.

Consistent Voltage Output at 1.5V

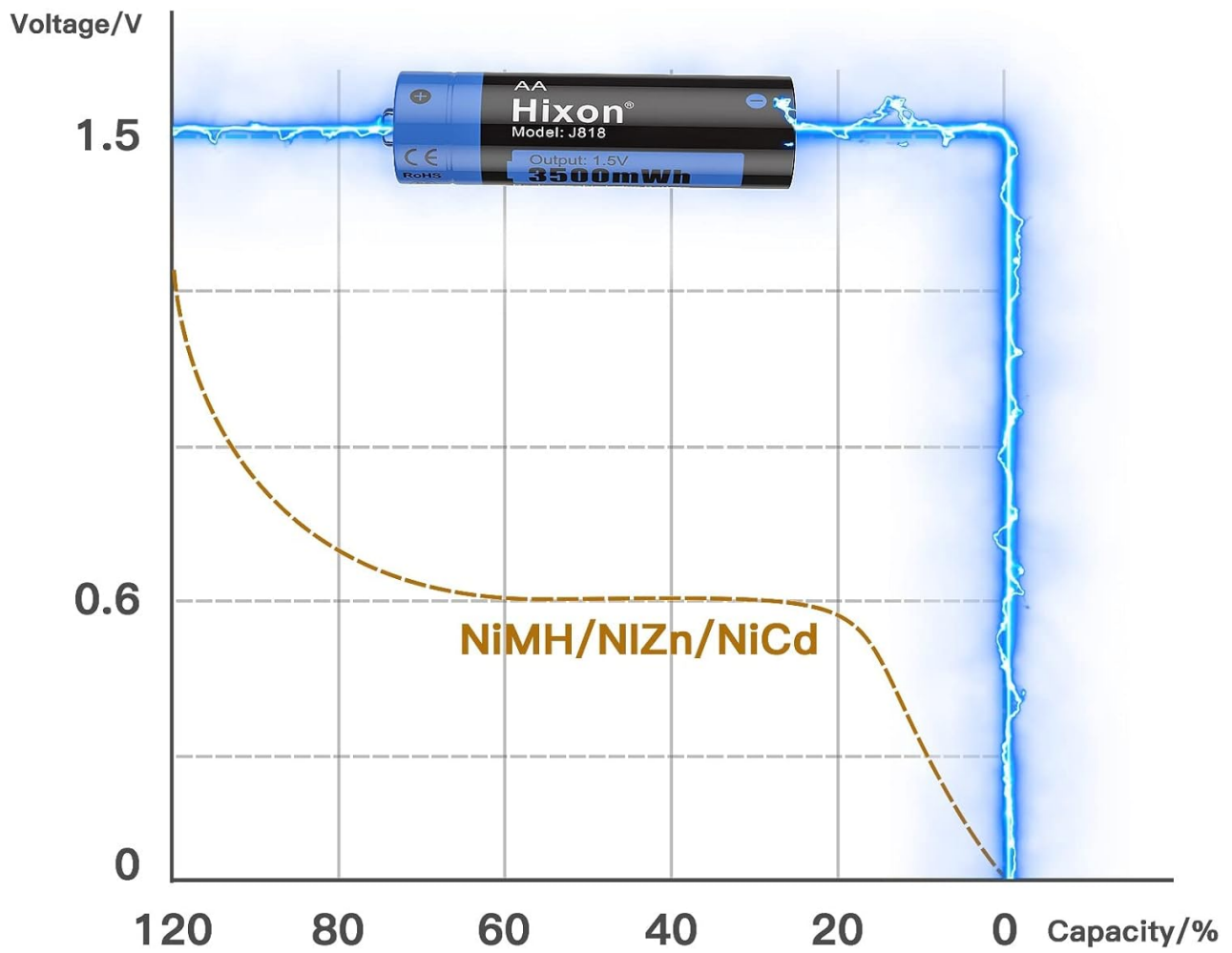


Image: Consistent Voltage Output Comparison

High Discharge Current

Hixon J818 model batteries feature an upgraded maximum discharge current of 3A. This capability makes them ideal for high-power demand devices that require a strong and stable current, ensuring optimal performance even under heavy loads.

Upgraded To Max 3.0Amp Discharge Current



2A Max

Discharge Current

+50%



3A Max

Discharge Current

Image: Upgraded Max Discharge Current

Compatible Devices

These batteries are suitable for a wide array of electronic devices, including but not limited to:

- Game consoles (e.g., Xbox/VR Gaming Controller)
- Security cameras (e.g., Blink Camera)
- Smart door locks
- Remote controls (TV, universal)
- Portable audio players
- Toys
- Wireless keyboards & mice

- Flashlights
- And other household devices requiring AA batteries.

Performance AA Batteries

Widely used in multiple electronic device



Electronic Toy



Flashlight



Tooth Brush



Mouse



keyboard



Shaver



Image: Performance AA Batteries in Various Devices

MAINTENANCE AND STORAGE

Charging Cycles

Hixon AA rechargeable batteries are designed for durability, supporting over 1600 charge cycles. This extended lifespan makes them a cost-effective and environmentally friendly alternative to disposable batteries.

Rechargeable 1600 Times

Rechargeable batteries can recharge 1600 times
no need to buy one time use batteries



Image: 1600 Recharge Cycles

Long-Term Storage

These batteries exhibit a very low self-discharge rate, approximately 0.03% per month, significantly less than Ni-MH batteries. For optimal long-term storage, keep batteries in a cool, dry place. They have a shelf life of up to 12 years.



Extreme Environment Performance

Hixon batteries are designed to perform reliably across a wide temperature range, from -4°F to 140°F, ensuring functionality in various environmental conditions.



Image: Performance in Extreme Environments

TROUBLESHOOTING

Common Issues and Solutions

- **Battery Not Charging:** Ensure the battery is correctly inserted into the charger with proper polarity. Verify the charger is connected to a power source. If the issue persists, the battery's built-in protection might be active due to extreme conditions or a fault.
- **Device Not Powering On:** Check battery polarity in the device. Ensure batteries are fully charged. If the device still doesn't work, the battery's over-discharge protection may have activated. Recharge the batteries.
- **Shortened Runtime:** While Hixon batteries offer high capacity, runtime can vary based on device power consumption. Ensure the device is compatible with 1.5V lithium-ion batteries.

Hixon batteries incorporate multiple protection features to prevent damage and ensure safety. Refer to the 'Safety Information' section for details on these protections.

TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	J818
Battery Type	Rechargeable Lithium-ion (Li-ion)
Size	AA
Nominal Voltage	1.5V (Constant Output)
Energy Capacity	3500mWh
Battery Capacity	2333mAh
Max Discharge Current	3A
Charging Time	Approx. 2 hours (with Hixon charger)
Cycle Life	Over 1600 cycles
Self-Discharge Rate	Approx. 0.03% per month
Shelf Life	Up to 12 years
Product Dimensions	0.57 x 0.57 x 1.98 inches
Item Weight	0.67 ounces (per battery)

SAFETY INFORMATION

Hixon J818 batteries are equipped with an intelligent control IC chip and multiple protection mechanisms to ensure safe and reliable operation. These protections include:

- **Overcharge Protection:** Prevents the battery from being charged beyond its safe voltage limit.
- **Overvoltage Protection:** Safeguards against excessive voltage input.
- **Overcurrent Protection:** Protects against drawing too much current, which can cause overheating.
- **Over-discharge Protection:** Prevents the battery from being discharged below its safe voltage, preserving battery life.
- **Short Circuit Protection:** Automatically cuts off power in case of a short circuit.
- **Over-temperature Protection:** Monitors and prevents the battery from operating at unsafe temperatures.
- **Reverse Polarity Protection:** Prevents damage if the battery is inserted incorrectly.

These batteries have passed various certifications including ROHS, CE, CQC, and PSE, ensuring compliance with international safety standards.

Superior Safety

Seiko IC imported from Japan, better controlling of overcharge, over-discharge and short circuit.



OVER-CURRENT
PROTECTION



OVER-TEMPERATURE
PROTECTION



OVER-VOLTAGE
PROTECTION



CHARGE
PROTECTION



Image: Superior Safety Features (Exploded View)

WARRANTY AND SUPPORT

For any questions, concerns, or support needs regarding your Hixon 1.5V AA Rechargeable Lithium Batteries, please contact Hixon customer service. Refer to the product packaging or the Hixon official website for contact information.