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XTAR AAA Lithium 1620mWh Battery

XTAR AAA Lithium Rechargeable Battery User Manual

Model: AAA Lithium 1620mWh Battery
Brand: XTAR

1. Introduction

This manual provides essential information for the safe and effective use of your XTAR AAA Lithium Rechargeable Batteries. These batteries are designed to deliver a stable 1.5V output, offering high energy density and a long cycle life for various electronic devices.
Key features include 1620mWh energy, 1000mAh capacity, fast charging capability (approximately 1.9 hours for a full charge), and a robust safety chip providing multiple protections.



Image: A set of eight XTAR AAA 1.5V rechargeable lithium-ion batteries, showcasing their design and branding.

2. Important Safety Information

Please read and understand all safety warnings before using the batteries. Failure to follow these instructions may result in fire, personal injury, or property damage.

- **Charging:** Only use chargers specifically designed for 1.5V lithium-ion rechargeable batteries. Do not use chargers intended for Ni-MH, Ni-Cd, or other battery chemistries.
- **Polarity:** Always insert batteries with correct polarity (+ and -) as indicated in your device. Incorrect insertion can cause damage to the battery or device.
- **Storage:** Store batteries in a cool, dry place away from direct sunlight, heat sources, and metallic objects. Avoid extreme temperatures.
- **Disposal:** Do not dispose of batteries in fire or water. Recycle used batteries according to local regulations.
- **Damage:** Do not use batteries that are damaged, leaking, or deformed. Discontinue use immediately if batteries become excessively hot during charging or use.
- **Short-Circuit:** Avoid short-circuiting the battery terminals. Do not carry loose batteries in pockets or purses with metal objects like coins or keys.
- **Children:** Keep batteries out of reach of children. If swallowed, seek immediate medical attention.



Image: An exploded view diagram illustrating the internal components of the XTAR battery, highlighting the integrated smart safety chip and Li-ion core, along with icons representing various protection features like over-discharge, over-charge, short circuit, over-current, over-voltage, and over-temperature protection.

3. Setup and First Use

1. **Unpack:** Carefully remove the batteries from their packaging.
2. **Initial Charge:** For optimal performance and longevity, it is recommended to fully charge the batteries before their first use.
3. **Insert into Charger:** Place the batteries into a compatible 1.5V lithium-ion battery charger, ensuring correct polarity.
4. **Charge Time:** A full charge typically takes approximately 1.9 hours. Refer to your charger's manual for specific charging indicators.

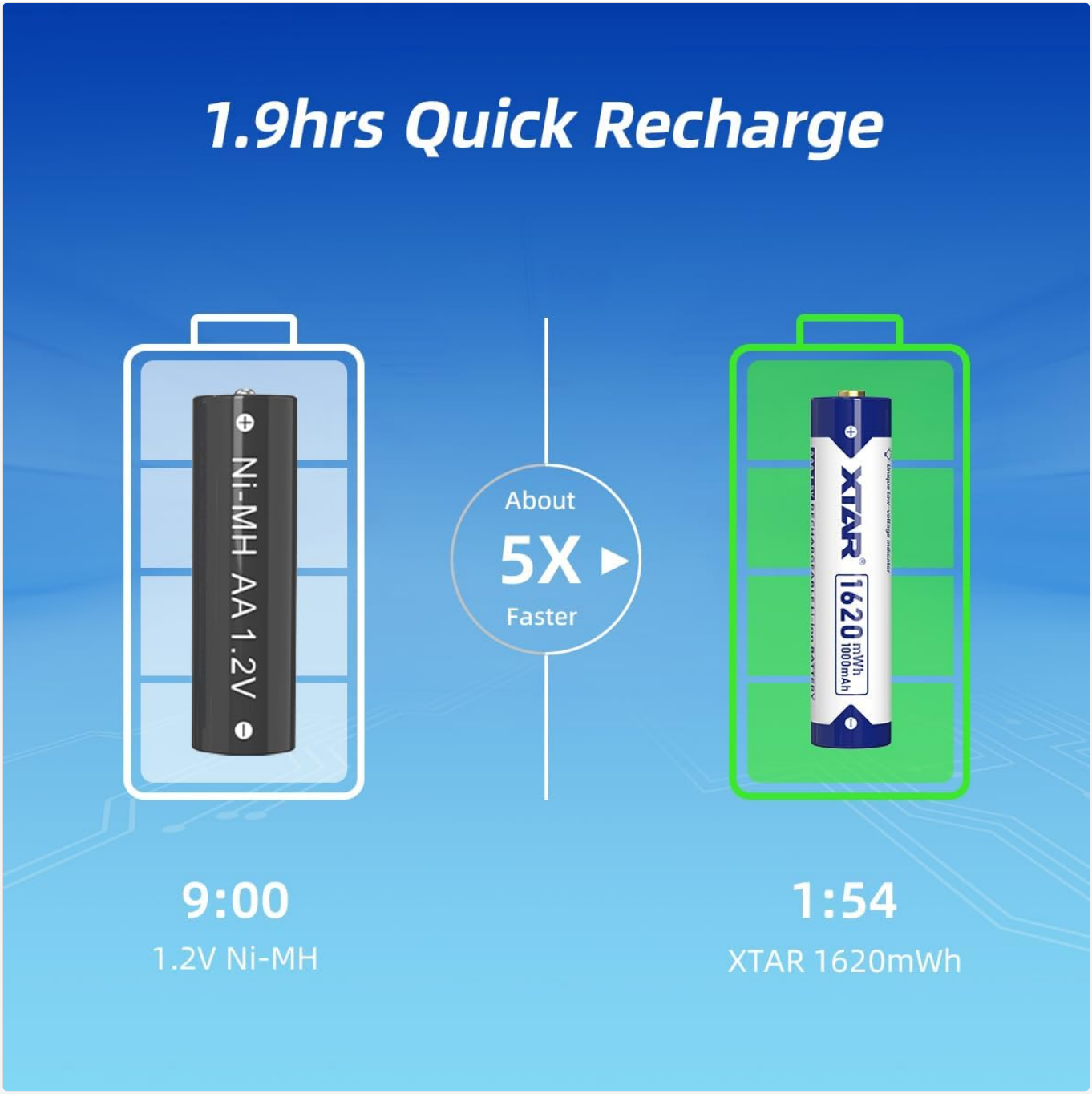


Image: A graphic comparing the charging speed of a 1.2V Ni-MH battery (9 hours) versus an XTAR 1620mWh battery (1 hour 54 minutes), illustrating the XTAR battery's significantly faster charging time.

4. Operating Instructions

These XTAR AAA Lithium Rechargeable Batteries provide a constant 1.5V output, which is beneficial for devices that require a stable voltage for optimal performance.

- **Insertion:** Insert the batteries into your electronic device according to the polarity markings (+ and -).
- **Compatibility:** These batteries are suitable for a wide range of devices including, but not limited to, trail cameras, Blink cameras, VR handheld controllers, game controllers, insulin pumps, electric shavers, and kids' toys.
- **Performance:** Experience consistent power delivery throughout the battery's discharge cycle, unlike traditional alkaline or Ni-MH batteries whose voltage drops as they discharge.
- **Low Voltage Detection:** The batteries feature a low voltage detection function to prevent over-discharge and protect your devices.



Image: A collage displaying various applications and devices compatible with XTAR AAA batteries, including a trail camera, Blink camera, smart lock, VR handheld controller, game controller, insulin pump, electric shaver, kids' toys, and a portable device.

5. Maintenance and Storage

- **Recharging:** Recharge batteries when their performance diminishes or when the low voltage indicator activates.
- **Cleaning:** Periodically clean the battery contacts and device terminals with a clean, dry cloth to ensure good connection.
- **Long-Term Storage:** For long-term storage, charge batteries to approximately 50% capacity and store them in a cool, dry place (recommended temperature: 25°C ± 5°C).
- **Cycle Life:** These batteries are designed for 1200+ charge cycles, offering significant environmental and economic benefits compared to disposable batteries.



Image: A graphic highlighting the "1200+ Cycle Life" of XTAR rechargeable Li-ion batteries, equating one XTAR battery to over 1200 disposable batteries, with icons representing environmental friendliness, efficiency, and money saving.

6. Troubleshooting

Problem	Possible Cause	Solution
Battery not charging.	Incorrect charger used, poor contact, battery too hot/cold, battery damaged.	Ensure charger is compatible with 1.5V Li-ion batteries. Clean battery and charger contacts. Allow battery to reach room temperature. If damaged, replace battery.
Device not powering on.	Incorrect battery insertion, battery discharged, device issue.	Check battery polarity. Recharge batteries. Test batteries in another device. Consult device manual.

Problem	Possible Cause	Solution
Battery life is shorter than expected.	High power consumption device, frequent deep discharge, aging battery.	This is normal for high-drain devices. Avoid fully discharging batteries frequently. Batteries have a finite cycle life; consider replacement after 1200+ cycles.

7. Product Specifications

Model	AAA Lithium 1620mWh Battery
Nominal Voltage	1.5V
Nominal Capacity	1000mAh
Energy	1620mWh
Low Output Voltage	1.1V
Standard Charging Voltage	5V
Continuous Discharge Rating (Max.)	2A
Protected	Yes
Positive Terminal	Button Top
Battery Cycle	1200+
Storage Temp.	-20~50°C (Best at 25±5°C)
Dimensions (mm)	Φ10.3±0.3xH44.2±0.5
Net Weight	9g

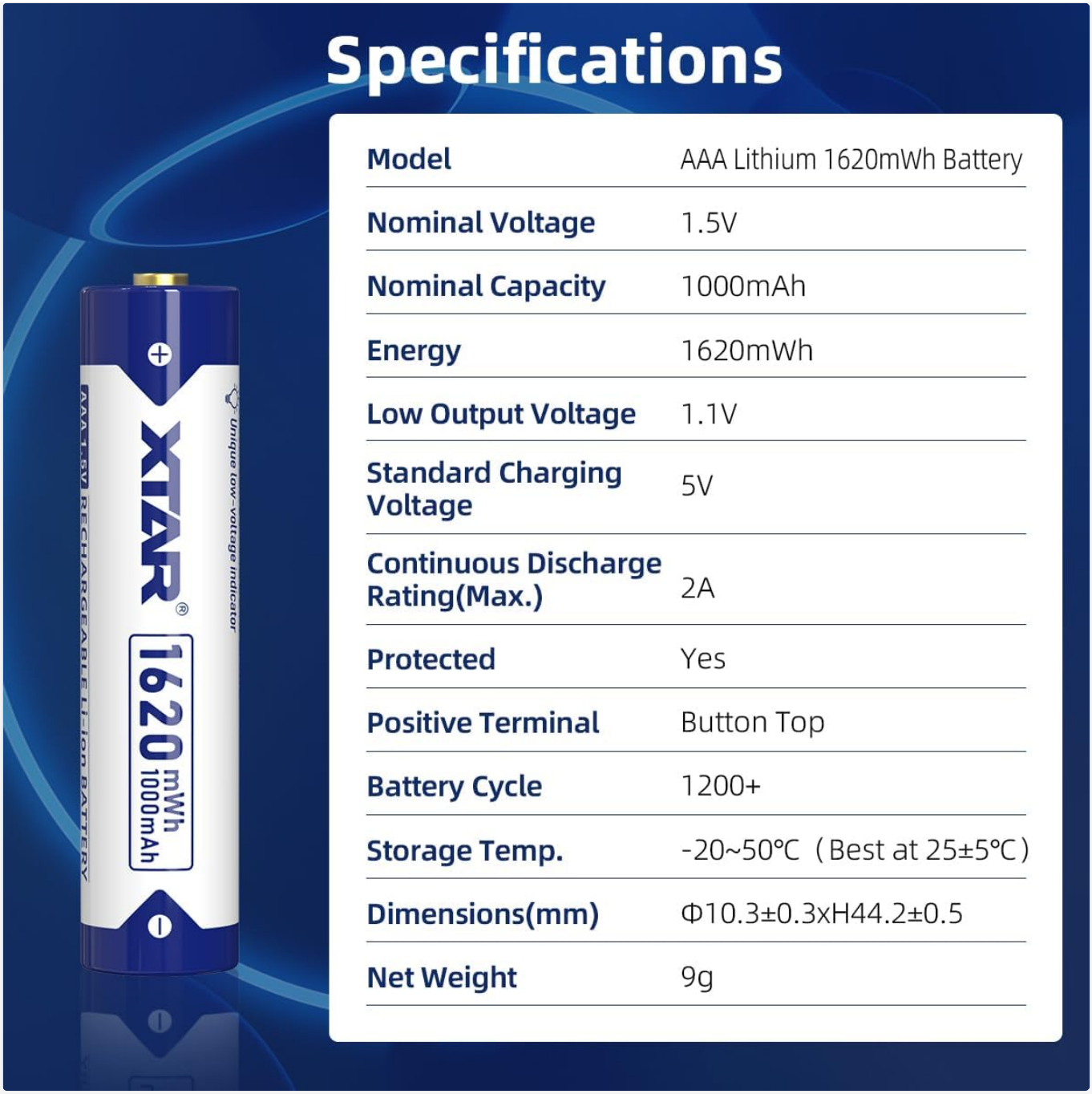


Image: A visual representation of the XTAR AAA Lithium 1620mWh Battery specifications, presented in a table format, including model, nominal voltage, capacity, energy, low output voltage, charging voltage, discharge rating, protection status, terminal type, cycle life, storage temperature, dimensions, and net weight.

8. Warranty and Support

For warranty information and customer support, please refer to the official XTAR website or contact the seller directly. Keep your purchase receipt as proof of purchase.

Manufacturer: ShenZhen XTAR Electronics Co., Ltd

For further assistance, you may visit the XTAR Store on Amazon.

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