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> Camelion AA 2700mAh High Capacity Rechargeable NiMH Batteries User Manual

Camelion AA 2700

Camelion AA 2700mAh High Capacity Rechargeable NiMH Batteries

Model: AA 2700

1. INTRODUCTION

Thank you for choosing Camelion AA 2700mAh High Capacity Rechargeable NiMH Batteries. This 12-pack of AA NiMH batteries is designed to provide reliable and long-lasting power for a wide range of high-drain devices, including toys, shavers, gaming controls, flashlights, boomboxes, and microphones. These batteries come with a convenient storage case to help keep them organized and protected.

Camelion rechargeable batteries are engineered for superior performance, featuring low self-discharge, high capacity, enhanced safety mechanisms, and an extended lifespan of up to 1000 recharge cycles. They are also environmentally friendly, containing 0% Cadmium, Mercury, or Lead.



Image: A full view of the Camelion AA 2700mAh rechargeable batteries, showcasing the 12-pack with one battery prominently displayed in the foreground, highlighting its capacity and branding.

2. SAFETY INFORMATION

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

- **Use only compatible chargers:** Always use a charger specifically designed for NiMH rechargeable batteries. Using incompatible chargers may damage the batteries or cause safety hazards.
- **Do not short-circuit:** Avoid short-circuiting the battery terminals. This can cause excessive heat, fire, or explosion.
- **Do not dispose of in fire:** Batteries may explode or leak if disposed of in fire.
- **Keep away from children:** Store batteries out of reach of children and pets. If swallowed, seek immediate medical attention.
- **Do not disassemble or modify:** Do not attempt to open, disassemble, or modify the batteries. This can lead to internal short-circuits, leakage, or explosion.
- **Avoid extreme temperatures:** Do not expose batteries to extreme heat or cold. Store them in a cool, dry place.
- **Leak and explosion proof design:** These batteries incorporate a built-in high stability rubber particle treatment and an explosion-proof structure to prevent explosion even under extreme conditions. The explosion-proof valve is

designed to open normally if internal pressure becomes too high.



Image: A detailed diagram highlighting the internal safety features of the Camelion battery, specifically pointing out the leak and explosion-proof gasket designed for enhanced safety.

3. SETUP AND INITIAL USE

Your Camelion AA 2700mAh batteries come pre-charged and are ready for immediate use. However, for optimal performance and to maximize their lifespan, it is recommended to fully charge them before the first extensive use.

1. **Unpack:** Carefully remove the batteries from their packaging and the included storage case.
2. **Charge:** Insert the batteries into a compatible NiMH battery charger. Follow the charger's instructions for proper charging. Ensure correct polarity (+ and -) when inserting.
3. **First Use:** Once fully charged, insert the batteries into your device, observing the correct polarity.

4. OPERATING INSTRUCTIONS

Charging

To charge your Camelion NiMH batteries, use a dedicated NiMH battery charger. Charging times will vary depending on the charger's output current and the battery's current charge level. Refer to your charger's manual for specific charging instructions.

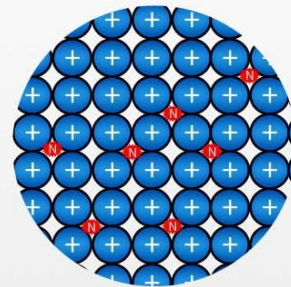
Battery Performance and Lifespan

- **High Capacity:** With 2700mAh, these batteries provide extended run-time for high, medium, and low drain devices.
- **Low Self-Discharge:** The positive electrode is coated with cobalt, which significantly reduces the self-discharge rate. This means the batteries retain a high charge even after long-term storage.

Low self discharge

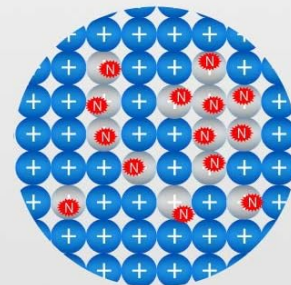
The positive electrode of the battery adopts a full cobalt coating structure, which effectively suppresses self-discharge of the battery.

Camelion Battery retaining 85% of capacity after one year



The all-cobalt coating structure inhibits the erosion of impurities and less power loss

Other batteries after one year



No cobalt coating structure therefore erosion of impurities is higher and more power loss

Camelion.



- ⊕ Cobalt coated positive electrode
- N Impurities
- ⊕ Positive electrode eroded by impurities

Image: A comparative diagram showing how Camelion batteries retain 85% of their capacity after one year due to low self-discharge, contrasted with other batteries that lose significantly more charge.

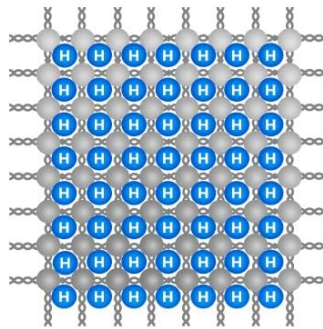
- **Long Life:** Utilizing a special AB5 type alloy powder and a newly formulated additive, the hydrogen storage alloy lattice is made more durable, allowing for up to 1000 recharge cycles.

Long Life

Camelion rechargeable battery uses AB5 alloy powder to construct a more solide crystal lattice, and the structure can be maintained after repeated cycles, plus 1.2 times the excess ratio of negative elements, the number of cycles can reach 1000 times.



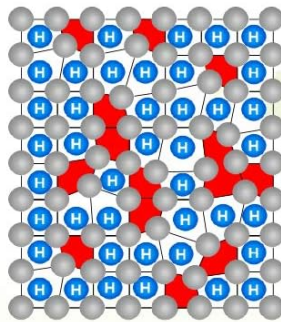
1000 recharge cycles



The crystal lattice is firm and it is not easy to damage, therefore keeping the capacity after repeated cycles.



After a few recharge cycles



Crystal lattice easily damage after recharge therefore lossing capacity after each recharge cycle

Image: A visual representation of the Camelion battery's long lifespan, indicating it can withstand 1000 recharge cycles due to its stable internal crystal lattice structure.

- **No Memory Effect:** These NiMH batteries do not suffer from the 'memory effect', meaning they can be recharged at any time without needing to be fully discharged first.

Recommended Uses

Camelion AA 2700mAh batteries are suitable for a wide array of electronic devices, particularly those requiring high power output.

- Cameras
- Clocks
- Flashlights
- Toys
- Shavers
- Gaming Controls
- Boomboxes
- Microphones

Range of Uses

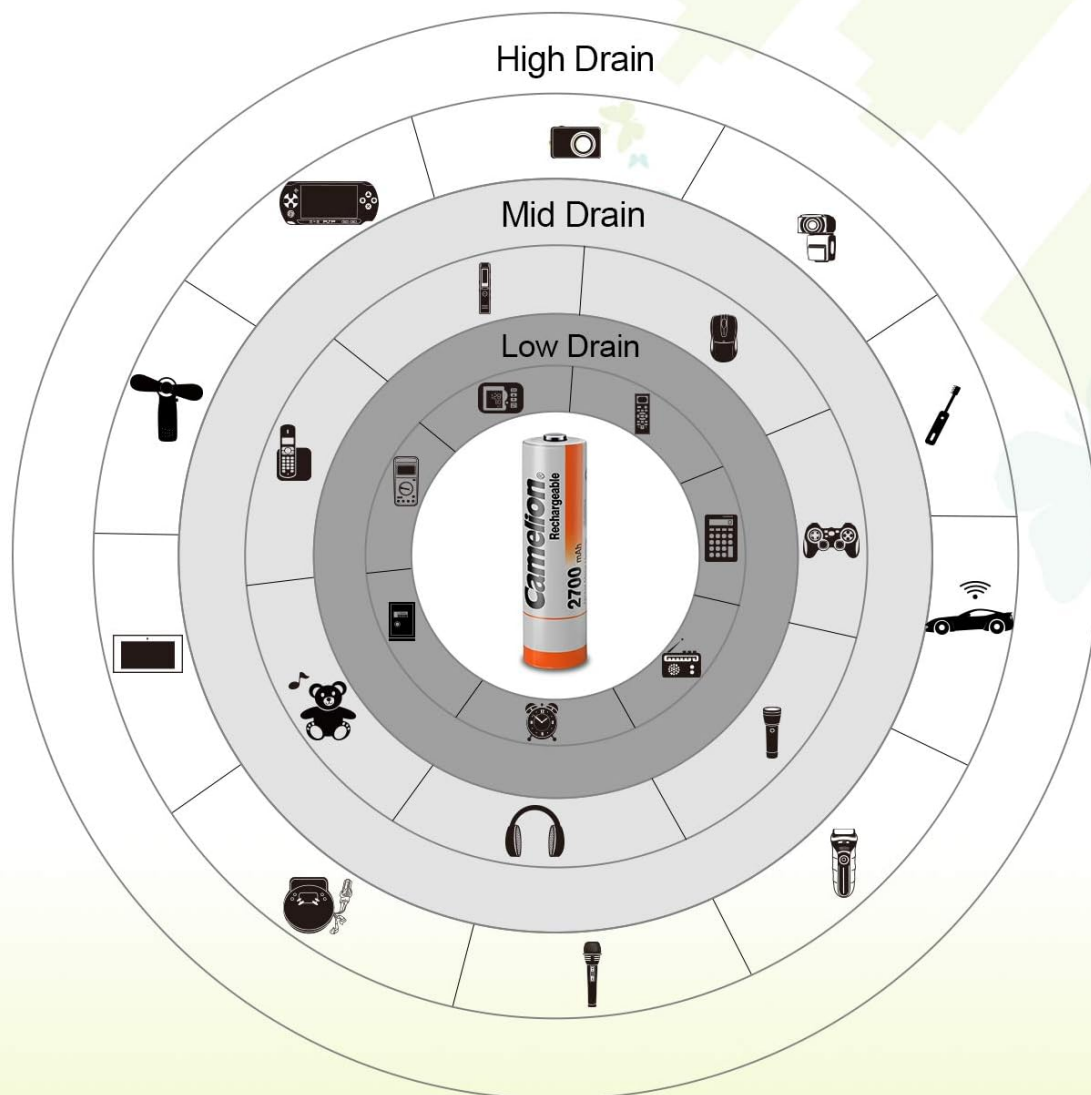


Image: A circular diagram illustrating various devices categorized by their power drain (high, mid, low), demonstrating the versatility of Camelion batteries across different applications.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Camelion batteries.

- **Storage:** When not in use, store batteries in a cool, dry place. The included battery storage case is ideal for protecting them from dust, moisture, and accidental short-circuits.

3 battery storage case included

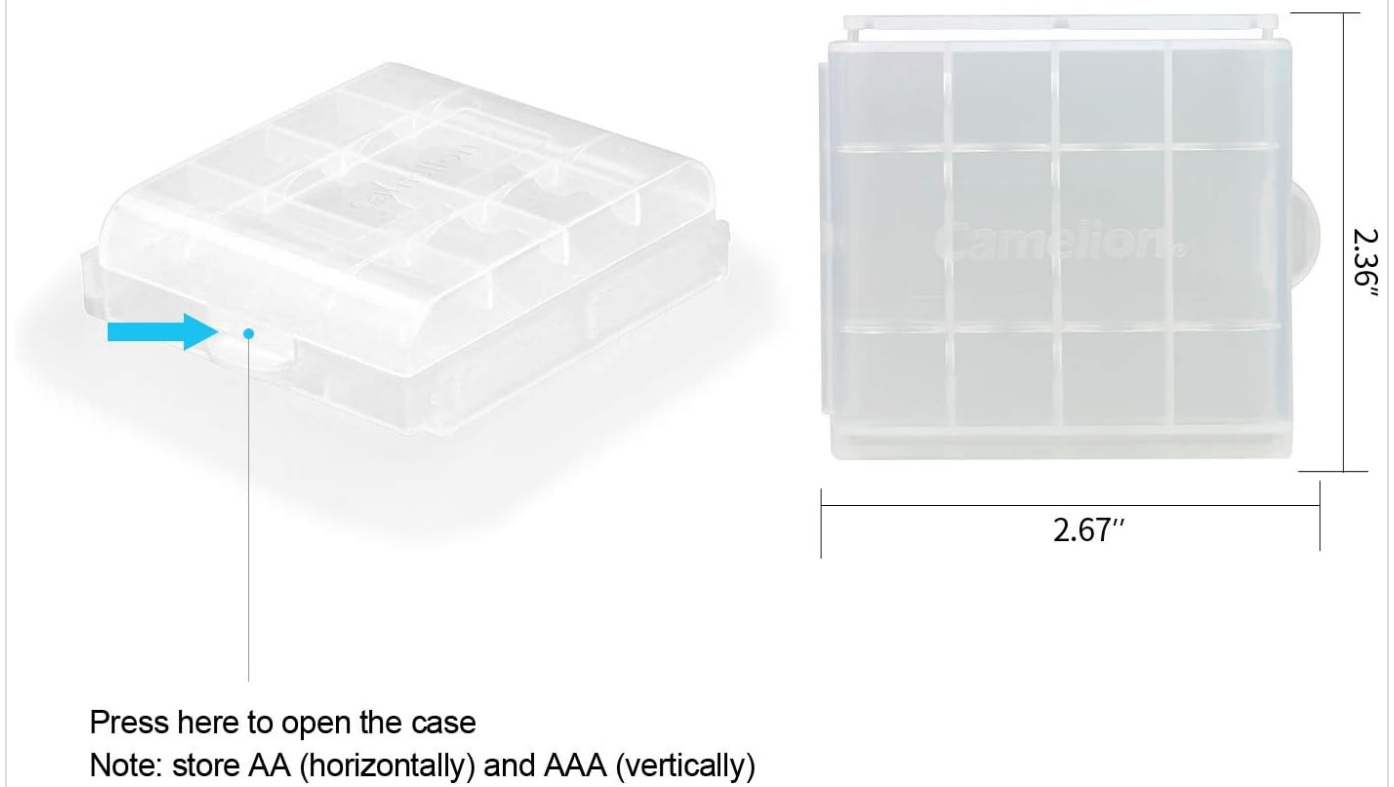


Image: A clear depiction of the included battery storage case, highlighting its compact design and providing dimensions for reference. It also shows how to open the case.

- **Cleaning:** Periodically clean the battery contacts with a clean, dry cloth to ensure good electrical connection.
- **Recycling:** These batteries are environmentally friendly, containing 0% Cadmium, Mercury, or Lead. When they reach the end of their life, please recycle them responsibly at an authorized battery recycling facility.

Camelion Rechargeable Battery Green and Recycle

Saving cost on every penny

Camelion rechargeable battery has a recharge cycle of up to 1000 times, therefore one rechargeable battery is equal to 1000 normal alkaline batteries. Camelion battery does not contain mercury, cadmium and lead, making it more environmental friendly and safe.

1 cell



1000 cells



Image: A visual comparison illustrating that one Camelion rechargeable battery can replace 1000 normal alkaline batteries, emphasizing its cost-saving and environmental benefits.



Image: A 'Go Green' themed graphic emphasizing the environmental benefits of Camelion batteries, specifically noting the absence of Lead, Mercury, and Cadmium.

6. TROUBLESHOOTING

If you encounter issues with your Camelion rechargeable batteries, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Battery not charging or not charging fully	<ul style="list-style-type: none"> • Incompatible or faulty charger • Incorrect battery insertion (polarity) • Battery contacts are dirty • Battery has reached end of life 	<ul style="list-style-type: none"> • Ensure you are using a NiMH compatible charger. Try a different charger if available. • Verify batteries are inserted with correct polarity (+/-). • Clean battery contacts on both the battery and charger with a dry cloth. • If the battery is very old or has been heavily used (over 1000 cycles), it may need replacement.
Battery not holding charge / Discharging too fast	<ul style="list-style-type: none"> • Battery has reached end of life • High drain device usage • Improper storage conditions 	<ul style="list-style-type: none"> • Rechargeable batteries have a finite lifespan. If they no longer hold a charge after many cycles, they may need replacement. • High-drain devices naturally consume power faster. Ensure the battery capacity (2700mAh) is sufficient for your device's needs. • Store batteries in a cool, dry place, preferably in the provided case, to minimize self-discharge.
Device not powering on with charged batteries	<ul style="list-style-type: none"> • Incorrect battery insertion (polarity) • Device issue, not battery issue • Battery contacts are dirty 	<ul style="list-style-type: none"> • Double-check that batteries are inserted with the correct polarity. • Test the device with known working batteries to rule out a device malfunction. • Clean battery contacts on both the battery and the device.

7. SPECIFICATIONS

Feature	Description
Brand	Camelion
Model Number	AA 2700
Battery Type	NiMH (Nickel Metal Hydride)
Capacity	2700 mAh (Milliamp Hours)
Voltage	1.2V
Number of Batteries	12 AA batteries (included)
Recharge Cycles	Up to 1000 cycles

Feature	Description
Environmental Compliance	0% Cadmium, Mercury, Lead
Package Dimensions	6.69 x 2.56 x 0.63 inches
Package Weight	13.65 ounces
First Available Date	July 12, 2018

8. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the official Camelion website or contact the retailer from whom you purchased the product. Keep your proof of purchase for any warranty claims.

Manufacturer: Camelion Battery Co., Ltd.

For further assistance, please visit the [Camelion Store on Amazon](#).