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**ALLC MINOLTA 428E/8100/8-308/8-308E/8-406/8-406E/8-418/8-418E/8-428/848E/8-808/BP975/C1/C2/C406E/C408/C50/C503**

# ALLC Replacement Battery for MINOLTA Cameras - Instruction Manual

Model: MINOLTA 428E/8100/8-308/8-308E/8-406/8-406E/8-418/8-418E/8-428/848E/8-808/BP975/C1/C2/C406E/C408/C50/C503

## 1. PRODUCT OVERVIEW

This manual provides essential instructions for the safe and effective use of your ALLC 2100mAh NiMH replacement battery. This battery is designed to be compatible with various MINOLTA camera models, ensuring reliable power for your device.



**Figure 1.1:** Top view of the ALLC replacement battery, showing the product label with model number CS-NP55, capacity 2100mAh, and voltage 6.0V. The label also includes important safety warnings and certifications.

## 2. SAFETY INFORMATION

Please read and understand all safety warnings before using this battery. Failure to follow these instructions may

result in fire, electric shock, explosion, or other hazards.

- **Do not crush, puncture, short external contacts, or dispose of in fire or water.**
- **Do not disassemble, open, or service the battery pack.**
- **Do not expose to temperatures above 60°C (140°F).**
- This battery features built-in protection against over-charge, over-discharge, over-heat, over-current, and short-circuit.
- Keep the battery away from children.
- Use only with compatible chargers and devices specified by the original equipment manufacturer.
- If the battery shows signs of damage, swelling, or leakage, discontinue use immediately and dispose of it properly.

### 3. SETUP AND INSTALLATION

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Follow these steps to properly install the battery into your compatible MINOLTA camera or device.

1. Ensure your camera or device is powered off before attempting battery installation or removal.
2. Locate the battery compartment on your device. This is typically on the bottom or side.
3. Open the battery compartment cover.
4. Align the battery with the compartment, ensuring the metal contacts on the battery match the contacts inside the device.
5. Gently insert the battery until it clicks into place or is securely seated. Do not force the battery.
6. Close the battery compartment cover securely.



**Figure 3.1:** Bottom view of the ALLC replacement battery, highlighting the electrical contacts that connect to the camera or charger.

### 4. OPERATING INSTRUCTIONS

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## 4.1. Initial Charging

For optimal performance, fully charge the battery before its first use. Use a compatible NiMH battery charger.

1. Insert the battery into a compatible NiMH battery charger.
2. Connect the charger to a power source.
3. Allow the battery to charge until the charger's indicator shows a full charge. Charging times may vary depending on the charger and the battery's initial charge level.

## 4.2. Regular Use

This NiMH battery features **no memory effect**, meaning you can recharge it at any time without significantly reducing its overall lifespan. However, for best practice, it is often recommended to fully discharge and recharge NiMH batteries periodically to maintain capacity.

- Always ensure the battery is fully charged before important use.
- Monitor your device's battery indicator to avoid unexpected power loss.
- Remove the battery from the device if it will not be used for an extended period.

## 5. MAINTENANCE

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### 5.1. Storage

- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, it is recommended to store NiMH batteries with a partial charge (around 40-50% capacity) to prevent over-discharge.
- Avoid storing the battery near metallic objects that could cause a short circuit.

### 5.2. Cleaning

- Periodically clean the battery contacts with a clean, dry cloth to ensure good electrical connection.
- Do not use liquid cleaners or solvents on the battery.

### 5.3. Disposal

Do not dispose of batteries in household waste. NiMH batteries contain recyclable materials and should be disposed of at designated recycling centers or according to local regulations.

## 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Battery not charging	<ul style="list-style-type: none"><li>◦ Charger not connected</li><li>◦ Dirty battery contacts</li><li>◦ Incompatible charger</li><li>◦ Battery fully discharged</li></ul>	<ul style="list-style-type: none"><li>◦ Ensure charger is properly connected to power and battery.</li><li>◦ Clean battery contacts with a dry cloth.</li><li>◦ Use a charger compatible with NiMH batteries.</li><li>◦ Allow more time for charging, especially if deeply discharged.</li></ul>

Problem	Possible Cause	Solution
Device not powering on with battery	<ul style="list-style-type: none"> <li>◦ Battery not fully charged</li> <li>◦ Battery not properly installed</li> <li>◦ Device issue</li> </ul>	<ul style="list-style-type: none"> <li>◦ Charge the battery fully.</li> <li>◦ Re-install the battery, ensuring proper alignment and secure fit.</li> <li>◦ Test the device with another known-good battery if available.</li> </ul>
Shortened battery life	<ul style="list-style-type: none"> <li>◦ Battery aging</li> <li>◦ Frequent deep discharges</li> <li>◦ Extreme operating temperatures</li> </ul>	<ul style="list-style-type: none"> <li>◦ Battery capacity naturally degrades over time.</li> <li>◦ Avoid completely draining the battery frequently.</li> <li>◦ Operate and store the battery within recommended temperature ranges.</li> </ul>

## 7. SPECIFICATIONS

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- **Brand:** ALLC
- **Model Compatibility:** MINOLTA 428E, 8100, 8-308, 8-308E, 8-406, 8-406E, 8-418, 8-418E, 8-428, 848E, 8-808, BP975, C1, C2, C406E, C408, C50, C503
- **Battery Cell Composition:** NiMH (Nickel-Metal Hydride)
- **Capacity:** 2100mAh
- **Voltage:** 6.0V
- **Number of Batteries:** 1 (Product Specific)
- **Certifications:** ISO9001, RoHS, CE certified
- **Manufacturer:** camersonsino
- **Date First Available:** October 12, 2023

## 8. WARRANTY AND SUPPORT

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This ALLC battery has undergone strict quality control standards and testing to ensure reliability. We are committed to providing quality products and customer satisfaction.

- **Quality Assurance:** Our battery has passed ISO9001, RoHS, and CE certifications. A+ cells are used to ensure longer battery life.
- **Customer Support:** For any questions, concerns, or assistance, please contact our customer support team. We guarantee 24-hour email support.
- Please refer to your purchase documentation for specific warranty terms and conditions.