

[Manuals.plus](#) /

> [XSPLENDOR](#) /

> XSPLENDOR Replacement Battery for ICOM IC-A22, IC-A22E, IC-A3, IC-A3E Radios (Model CS-ICM166TW) - User Manual

## XSPLENDOR CS-ICM166TW

# XSPLENDOR Replacement Battery User Manual

Model: CS-ICM166TW

## 1. INTRODUCTION

---

This manual provides essential instructions for the safe and effective use of your XSPLENDOR Replacement Ni-MH Battery, model CS-ICM166TW. This battery is specifically designed as a replacement for compatible ICOM radio models.

## 2. PRODUCT OVERVIEW

---

The XSPLENDOR CS-ICM166TW is a high-quality rechargeable Nickel-Metal Hydride (Ni-MH) battery pack. It is engineered to be compatible with the following ICOM radio models: **IC-A22**, **IC-A22E**, **IC-A3**, and **IC-A3E**. It serves as a direct replacement for ICOM part numbers **CM-166** and **CM-166S**. The battery provides a nominal voltage of 12.0V and a capacity of 1000mAh.



Image 1: XSPLENDOR Replacement Ni-MH Battery (Model CS-ICM166TW) with visible label.

## 3. SAFETY INFORMATION

---

Please read and adhere to all safety warnings to prevent injury or damage to the battery and your device. Failure to follow these instructions may result in fire, explosion, or other hazards.

- **DO NOT** attempt to disassemble, open, or service the battery pack.
- Replace only with the battery pack designated for this product. Using an incompatible battery may cause damage.
- **DO NOT** store above 60°C (140°F). High temperatures can degrade battery performance and pose a safety risk.
- **DO NOT** crush, puncture, short external contacts, or dispose of in fire or water.
- Keep out of reach of children.
- Dispose of used batteries according to local regulations. Do not dispose of with household waste.

## 4. SETUP

---

Before initial use, it is recommended to fully charge the battery. This ensures optimal performance and battery life.

1. **Unpack:** Carefully remove the battery from its packaging.
2. **Inspect:** Check the battery for any visible signs of damage. Do not use if damaged.
3. **Install:** Align the battery with the battery compartment of your ICOM radio. Gently slide the battery into place until it clicks securely. Ensure that the battery terminals make proper contact with the radio's connectors.
4. **Charge:** Connect your ICOM radio with the newly installed battery to its designated charger. Follow the charging instructions provided with your ICOM radio.



Image 2: Top view of the XSPLENDOR battery, highlighting the contact points for installation.

## 5. OPERATING INSTRUCTIONS

---

Once properly installed and charged, the battery will power your ICOM radio. The battery is designed for repeated charging and discharging cycles.

- **Powering On:** Refer to your ICOM radio's manual for specific instructions on powering on the device.
- **Charging:** When the radio indicates low battery, connect it to its compatible charger. The charging time may vary depending on the charger and the battery's discharge level.
- **Discharging:** Use the radio normally until the battery requires recharging. Avoid completely draining the battery frequently, as this can reduce its overall lifespan.

## 6. MAINTENANCE

---

Proper maintenance can extend the life and performance of your battery.

- **Storage:** Store the battery in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to approximately 50% capacity.
- **Cleaning:** Periodically clean the battery terminals with a dry, clean cloth to ensure good electrical contact with the radio.
- **Avoid Over-Discharge:** Do not allow the battery to remain fully discharged for extended periods, as this can lead to irreversible capacity loss.
- **Avoid Over-Charge:** While Ni-MH batteries are generally tolerant to overcharging, prolonged continuous overcharging can reduce battery life. Use a charger designed for Ni-MH batteries.

## 7. TROUBLESHOOTING

---

If you encounter issues with your battery, refer to the following common problems and solutions:

- **Radio Does Not Power On:**
  - Ensure the battery is correctly seated in the radio's compartment.
  - Verify the battery is sufficiently charged.
  - Clean the battery and radio terminals to ensure good contact.
- **Battery Not Charging:**
  - Check if the charger is properly connected to a power source and the radio.
  - Ensure the charger is compatible with your ICOM radio and Ni-MH batteries.
  - Clean the charging contacts on both the battery and the charger.
- **Shortened Battery Life:**
  - Ensure the battery is being fully charged before use.
  - Avoid operating the radio in extreme temperatures.
  - The battery may be reaching the end of its service life and may need replacement.

If problems persist after attempting these solutions, please contact customer support.

## 8. SPECIFICATIONS

---

Feature	Detail
Product Type	Ni-MH (Nickel-Metal Hydride)
Model Number	CS-ICM166TW
Voltage	12.0V
Capacity	1000mAh / 12.00Wh
Dimensions (L x W x H)	75.00 x 56.50 x 35.50mm (2.95 x 2.22 x 1.4 inches)
Weight	250.0g
Reusability	Rechargeable
Compatible ICOM Models	IC-A22, IC-A22E, IC-A3, IC-A3E

Replaces ICOM Part Numbers	CM-166, CM-166S
Certifications	ISO9001, RoHS, CE

## 9. CONTACT AND SUPPORT

---

For technical assistance, warranty inquiries, or further support, please contact XSPLENDOR customer service. When contacting support, please refer to your product model number **CS-ICM166TW** to help us assist you more efficiently.

Please visit the official XSPLENDOR website or your retailer's support page for contact information.