VARTA 1838

VARTA Solar Rechargeable AA Ni-MH Battery 800mAh (Model 1838) - Instruction Manual

Your guide to safe and efficient use of VARTA Solar Rechargeable Batteries.

1. Introduction

This manual provides essential instructions for the proper use, charging, and maintenance of your VARTA Solar Rechargeable AA Ni-MH 800mAh batteries. Designed specifically for solar garden lights and other low-current devices, these batteries offer reliable, long-lasting, and environmentally friendly energy. Please read this manual thoroughly before first use to ensure optimal performance and safety.

2. Product Overview

The VARTA Solar Rechargeable AA Ni-MH 800mAh batteries are high-quality, robust power sources. They are engineered to withstand frequent recharging cycles, making them ideal for applications like solar garden lights that require consistent, low-current energy delivery.

Figure 1: A VARTA Solar Rechargeable AA Ni-MH battery. The battery features a yellow and green design, clearly labeled with "VARTA", "SOLAR 800mAh RECHARGE ACCU", "Ni-MH HR6 56736 1.2V", and charging specifications "16H - 80mA".

Key Features:

- **Ni-MH Technology:** Premium quality Nickel-Metal Hydride (Ni-MH) chemistry.
- **800mAh Capacity:** Optimized for low-current devices and frequent recharging.
- **No Memory Effect:** Can be recharged hundreds of times without capacity degradation due to partial discharge.
- **Robust Design:** Resistant to overcharging and deep discharging, ensuring high cycle life and durability.
- **Environmentally Friendly:** A reusable energy solution.

3. Setup and Initial Charging

3.1 Initial Charge

For optimal performance, it is recommended to fully charge the batteries before their first use. Use a compatible Ni-MH battery charger. The recommended charging rate for these 800mAh batteries is 80mA for 16 hours for a standard charge. Quick charging is also supported by compatible chargers.

3.2 Installation

1. Ensure the device is turned off before installing batteries.
2. Open the battery compartment of your device (e.g., solar garden light).
3. Insert the VARTA AA Ni-MH batteries, ensuring correct polarity (+ and - terminals match the device's markings).
4. Close the battery compartment securely.

Caution: Incorrect polarity can damage the device and the batteries.

4. Operating Instructions

4.1 Charging

- Always use a charger designed for Ni-MH batteries. Using an incompatible charger (e.g., for Ni-Cd or Alkaline) can damage the batteries and pose a safety risk.
- Charge batteries in a well-ventilated area, away from flammable materials.
- Do not overcharge batteries. Follow the charger's instructions and recommended charging times.
- These batteries are designed for frequent recharging cycles, typical for solar-powered devices.

4.2 Usage

- These batteries are optimized for low-current applications such as solar garden lights.
- Avoid mixing new and old batteries, or different types/brands of batteries, in the same device.
- Remove batteries from devices that will not be used for extended periods.

5. Maintenance and Storage

5.1 Cleaning

Keep battery terminals clean. If they become dirty, wipe them with a clean, dry cloth. Do not use water or chemical cleaners.

5.2 Storage

- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, it is advisable to store Ni-MH batteries with a partial charge (around 50%).
- Keep batteries away from metal objects to prevent short-circuiting. Use a battery case if available.
- Keep out of reach of children.

5.3 Disposal

Do not dispose of batteries in household waste. Ni-MH batteries contain recyclable materials. Please dispose of them at designated recycling centers or according to local regulations for battery disposal.

6. Troubleshooting

Problem	Possible Cause	Solution
Device not powering on.	Batteries not charged, incorrect polarity, faulty device.	Ensure batteries are fully charged. Check polarity. Test with other known-good batteries or device.
Batteries not holding charge.	Charger issue, end of battery life, extreme temperatures during charging/use.	Try a different Ni-MH charger. Batteries have a finite lifespan; consider replacement. Charge and use within recommended temperature ranges.
Batteries feel hot during charging.	Normal during charging, but excessive heat indicates a problem.	Slight warmth is normal. If batteries become excessively hot, discontinue charging immediately and consult the charger manual or VARTA support.

7. Specifications

Brand	VARTA
Model Number	1838
Model Name	2X Akku
Battery Cell Composition	NiMH (Nickel-Metal Hydride)
Battery Capacity	800 mAh (Milliampere Hour)
Voltage	1.2 Volts
Amperage	800 Milliamps
Reusability	Rechargeable
Number of Batteries	2 AA batteries required (per pack)
Unit Count	2.0 Count
Item Dimensions (L x W x H)	3.15 x 0.63 x 4.72 inches
Item Weight	40 Grams
Battery Weight	10 Grams (each)
Recommended Uses	Solar garden lights, low-current devices
UPC	798154660187
GTIN	04008496658688

8. Warranty and Support

8.1 Warranty Information

VARTA products are manufactured to high-quality standards. These batteries are designed for durability and high cycle life. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official VARTA website. Warranty coverage typically addresses manufacturing defects.

8.2 Customer Support

If you encounter any issues or have questions regarding your VARTA Solar Rechargeable AA Ni-MH batteries that are not covered in this manual, please contact VARTA customer support. Contact information can typically be found on the product packaging or the official VARTA website (www.varta-consumer.com).