Absima 4100013

Absima 4100013 NiMH 7.2V 5100mAh High Power Battery User Manual

Introduction

This user manual provides important information regarding the safe handling, charging, operation, and maintenance of your Absima 4100013 NiMH 7.2V 5100mAh High Power Battery. Please read this manual thoroughly before using the battery to ensure optimal performance and safety. Retain this manual for future reference.

Safety Instructions

Failure to follow these safety instructions can result in fire, personal injury, or property damage. Always prioritize safety when handling batteries.

- **Respect Polarity:** Always connect the battery with correct polarity. Incorrect connection can cause damage to the battery and connected device.
- **Do Not Short-Circuit:** Avoid short-circuiting the battery terminals. This can lead to excessive heat, fire, and permanent damage to the battery.
- **Do Not Throw into Fire:** Never dispose of batteries in fire. Batteries can explode or leak harmful chemicals when exposed to high temperatures.
- **Use Compatible Charger:** Only use a charger specifically designed for NiMH batteries with the correct voltage and current settings. Using an incompatible charger can lead to overcharging, overheating, and damage.
- **Avoid Physical Damage:** Do not puncture, drop, or subject the battery to strong impacts. Damaged batteries can be dangerous.
- **Temperature Control:** Do not expose the battery to extreme temperatures (hot or cold). Store and operate within recommended temperature ranges.
- **Keep Away from Children:** Batteries are not toys. Keep them out of reach of children and pets.
- **Disposal:** Dispose of used batteries responsibly according to local regulations. Do not dispose of with household waste.

Product Overview

The Absima 4100013 NiMH battery is designed for high-power applications, offering reliable performance for compatible devices. It features a robust construction with high-quality single cell shrinking for durability.

Image: Absima 4100013 NiMH 7.2V 5100mAh High Power Battery. The image displays the green and black battery pack with its red and black wires terminating in a T-plug connector. An additional Tamiya adapter is also shown, indicating compatibility with different connection types.

Key Features:

- **Minimum Capacity:** 5100 mAh
- **Voltage:** 7.2 Volts
- **Connector System:** T-plug with Tamiya adapter included
- **Construction:** High-quality single cell shrinking
- **Cell Composition:** NiMH (Nickel-Metal Hydride)

Charging Instructions

Proper charging is crucial for the longevity and safety of your NiMH battery.

1. **Select a Compatible Charger:** Use a charger specifically designed for NiMH batteries. Ensure the charger supports 7.2V NiMH packs.
2. **Connect the Battery:** Connect the battery's T-plug to the charger. If your device or charger uses a Tamiya connector, use the provided Tamiya adapter. Ensure correct polarity.
3. **Set Charging Parameters:** Set the charger to the appropriate NiMH charging mode. For a 5100mAh battery, a common charging rate is 0.5C to 1C (e.g., 2.5A to 5.1A). Refer to your charger's manual for specific settings.
4. **Monitor Charging:** Always monitor the battery during charging. If the battery becomes excessively hot, swells, or shows any other abnormalities, immediately disconnect it from the charger.
5. **Disconnect After Charging:** Once charging is complete, disconnect the battery from the charger. Avoid leaving batteries on charge indefinitely.

Note: The battery is supplied with a T-plug system and includes a Tamiya adapter for broader compatibility.

Operating Instructions

Follow these guidelines for safe and effective operation of your battery.

- **Installation:** Carefully connect the battery to your device (e.g., RC vehicle) ensuring the T-plug or Tamiya adapter is securely fastened and polarity is correct.
- **Disconnection:** When finished using the device, disconnect the battery promptly.
- **Discharge Level:** Avoid over-discharging NiMH batteries, as this can reduce their lifespan. Stop using the battery when you notice a significant drop in performance.
- **Temperature:** Operate the battery within moderate temperature ranges. Extreme heat or cold can affect performance and safety.

Maintenance and Storage

Proper maintenance and storage will extend the life of your Absima NiMH battery.

- **Cleaning:** Keep the battery and its connectors clean and free from dirt or corrosion. Use a dry cloth for cleaning.
- **Storage Temperature:** Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures. Ideal storage temperature is typically between 10°C and 25°C (50°F and 77°F).
- **Storage Charge:** For long-term storage, it is recommended to store NiMH batteries at approximately 50% charge. Avoid storing them fully charged or fully discharged for extended periods.
- **Inspection:** Periodically inspect the battery for any signs of damage, swelling, or leakage. Discontinue use immediately if any issues are observed.

Troubleshooting

If you encounter issues with your battery, consider the following common troubleshooting steps:

- **Battery Not Charging:**
  - Ensure the charger is properly connected and powered.
  - Verify the battery is correctly connected to the charger with correct polarity.
  - Check if the charger settings are appropriate for a 7.2V NiMH battery.
  - Inspect the battery and charger connectors for damage or corrosion.
- **Low Performance/Short Run Time:**
  - Ensure the battery is fully charged before use.
  - Check for signs of battery degradation (e.g., swelling, excessive heat during use).
  - Verify that the device drawing power is not faulty or drawing excessive current.
  - Consider the age of the battery; NiMH batteries have a finite cycle life.
- **Battery Overheating During Charge/Discharge:**
  - Immediately disconnect the battery.
  - Ensure the charging rate is not too high.
  - Check for short circuits in the device or connections.
  - If overheating persists, the battery may be damaged and should be safely disposed of.

Specifications

Model Number:	4100013
Brand:	Absima
Battery Type:	NiMH (Nickel-Metal Hydride)
Voltage:	7.2 Volts
Minimum Capacity:	5100 mAh
Connector Type:	T-plug system (with Tamiya adapter included)
Dimensions (L x W x H):	13.5 x 4.6 x 2.4 cm
Weight:	412 grams
Recommended Age:	14 years and up

Warranty and Support

For warranty information and customer support, please refer to the official Absima website or contact your retailer. Keep your proof of purchase for any warranty claims.
For further assistance, please visit the Absima official website.