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## Synergy Digital SDDC-H1102

# Synergy Digital SDDC-H1102 Ni-MH Dog Collar Battery Instruction Manual

Model: SDDC-H1102

## 1. PRODUCT OVERVIEW

This manual provides instructions for the Synergy Digital SDDC-H1102 Ni-MH rechargeable battery pack, designed as a replacement for compatible dog collar transmitters, such as the Dogtra 1900NCP. This battery offers ultra-high capacity and is made with Nickel Metal Hydride cells for reliable performance.



Image 1.1: Front view of the Synergy Digital SDDC-H1102 Ni-MH battery pack, displaying its label with model number and voltage/capacity ratings.

The battery pack features a 4.8V voltage and 400 mAh capacity, ensuring extended operational time for your device. It is designed to meet or exceed original manufacturer specifications.

## 2. SAFETY INFORMATION

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**WARNING: Failure to follow these safety instructions may result in fire, electric shock, injury, or damage to the product or property.**

- **Use ONLY specified charger:** Do not use chargers not designed for Ni-MH batteries or this specific model.
- **DO NOT dispose of in fire or water:** Improper disposal can lead to explosion or leakage.
- **DO NOT crush, disassemble, puncture:** This can cause internal short circuits, leading to overheating or fire.
- **Avoid short external contacts:** Do not allow metal objects to bridge the battery terminals.
- Keep batteries out of reach of children and pets.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- If the battery shows signs of damage, leakage, or overheating, discontinue use immediately and dispose of it properly.



Image 2.1: Close-up view of the battery's white connector with red and black wires, highlighting the connection point.

### 3. SETUP AND INSTALLATION

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Before installation, ensure your device is powered off. Refer to your dog collar's specific manual for detailed instructions on accessing the battery compartment.

1. **Locate Battery Compartment:** Identify and open the battery compartment on your dog collar transmitter. This usually involves unscrewing a cover or opening a latch.
2. **Remove Old Battery:** Carefully disconnect the old battery from its connector and remove it from the compartment.
3. **Connect New Battery:** Align the connector of the Synergy Digital SDDC-H1102 battery with the corresponding port in the device. Gently push until it clicks into place. Ensure the connection is

secure.

4. **Position Battery:** Place the new battery neatly within the compartment, ensuring no wires are pinched.
5. **Close Compartment:** Securely close the battery compartment cover.

After installation, it is recommended to fully charge the battery before first use.

## 4. OPERATING INSTRUCTIONS

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The SDDC-H1102 battery is a rechargeable Ni-MH type. Proper charging and usage are essential for optimal performance and longevity.

### 4.1 Charging the Battery

- Connect your dog collar transmitter to its original or a compatible Ni-MH charger.
- Ensure the charger is plugged into a working power outlet.
- Allow the battery to charge fully. Charging times may vary depending on the charger and the battery's discharge level. Refer to your device's manual for specific charging indicators (e.g., LED lights).
- Avoid overcharging by disconnecting the charger once the battery is full, if your charger does not have automatic cut-off.

### 4.2 First Use and Conditioning

For the first few charge cycles, it is beneficial to fully discharge the battery before recharging it completely. This helps to condition the Ni-MH cells and maximize their capacity.

### 4.3 Normal Usage

Once charged, the battery will power your dog collar transmitter. The duration of use will depend on the device's power consumption and usage patterns.

## 5. MAINTENANCE

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Proper maintenance can extend the life of your Synergy Digital battery.

- **Regular Charging:** Recharge the battery regularly, even if the device is not in constant use, to prevent deep discharge.
- **Storage:** If storing the battery for an extended period, charge it to about 50% capacity and store it in a cool, dry place. Avoid storing fully charged or fully discharged batteries for long periods.
- **Cleaning:** Keep the battery and its contacts clean and dry. Use a soft, dry cloth to wipe away any dust or debris.
- **Temperature:** Avoid exposing the battery to extreme temperatures, both hot and cold, as this can degrade performance and shorten lifespan.

## 6. TROUBLESHOOTING

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If you encounter issues with your Synergy Digital SDDC-H1102 battery, consider the following:

Problem	Possible Cause	Solution
Battery not charging	<ul style="list-style-type: none"> <li>Charger not connected properly</li> <li>Faulty charger</li> <li>Battery connector loose or damaged</li> <li>Battery is completely discharged (deep discharge)</li> </ul>	<ul style="list-style-type: none"> <li>Ensure charger is securely plugged into both outlet and device.</li> <li>Try a different, compatible charger.</li> <li>Check battery connector for damage and ensure it's firmly seated.</li> <li>Attempt to "jump start" the battery with a brief charge, or replace if severely damaged.</li> </ul>
Short operating time after full charge	<ul style="list-style-type: none"> <li>Battery not fully charged</li> <li>Battery capacity degradation (aging)</li> <li>High power consumption by device</li> </ul>	<ul style="list-style-type: none"> <li>Ensure battery is charged until the device indicates full charge.</li> <li>Perform a few full discharge/recharge cycles to recondition the battery.</li> <li>If battery is old, consider replacement.</li> <li>Check device settings for power-saving options.</li> </ul>
Battery overheating during charge/discharge	<ul style="list-style-type: none"> <li>Faulty charger</li> <li>Internal battery damage</li> <li>Environmental temperature too high</li> </ul>	<ul style="list-style-type: none"> <li>Immediately disconnect charger and discontinue use.</li> <li>Do not use the battery if it consistently overheats. Dispose of it safely.</li> <li>Ensure charging in a well-ventilated, cool environment.</li> </ul>

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

## 7. SPECIFICATIONS

Feature	Detail
Model Number	SDDC-H1102
Battery Type	Ni-MH (Nickel Metal Hydride)
Voltage	4.8V
Capacity	400 mAh
Dimensions	Approximately 1 x 1 x 1 inches (Note: This is from product data, actual battery size might be different from this generic value)
Item Weight	0.96 ounces
Compatibility	Compatible with Dogtra 1900NCP Transmitter and other models (e.g., GP - 28AAAM4SMX, GP - 40AAAM4SMX, Mighty Pets - BP-12, Sanik - 4SN-2/3AAA40H-H-XA1, Interstate - NIC0962 Batteries)

## 8. WARRANTY AND SUPPORT

## 8.1 Warranty Information

This Synergy Digital battery comes with a **3-year limited warranty**. This warranty covers manufacturing defects and ensures the battery meets or exceeds original manufacturer specifications. Please retain your proof of purchase for warranty claims.

## 8.2 Customer Support

For further assistance, technical support, or warranty claims, please refer to the contact information provided with your purchase or visit the official Synergy Digital website. When contacting support, please have your product model number (SDDC-H1102) and purchase details ready.