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Sunway Solar SW-HC02

Sunway Solar SW-HC02 AA/AAA/9V NiMH/NiCD Solar Battery Charger Instruction Manual

1. Introduction

The Sunway Solar SW-HC02 is a portable solar battery charger designed to efficiently charge 1.2V AA/AAA and 9V NiMH/NiCD rechargeable batteries using solar energy. Its built-in 2-watt solar panel converts sunlight into DC electricity, providing a convenient and eco-friendly charging solution for various household devices. This manual will guide you through the proper use and care of your solar charger.



Figure 1: Front view of the Sunway Solar SW-HC02 charger.

2. Product Features

- **7-Bay Battery Charger:** Capable of trickle charging up to six 1.2V AA/AAA rechargeable batteries and one 9V battery simultaneously. Compatible with NiMH and NiCD battery types.
- **2-Watt Crystalline Solar Panel:** Features a built-in 2-watt crystalline solar cell for efficient energy conversion. Ideal for emergency and outdoor charging.
- **Charging LED Indicators:** Equipped with a red LED to indicate active charging and a green LED to signal a fully charged battery.
- **Retractable Handle/Stand:** A versatile handle that allows for convenient carrying and can be folded out to serve as a stand, enabling optimal angling towards the sun for maximum power generation.
- **Durable Construction:** Covered with ultra-clear PV glass for enhanced efficiency and housed in durable ABS plastic. Includes a built-in diode to prevent reverse charging.



Figure 2: Back view with retractable handle extended.

3. Setup and Battery Installation

1. **Open the Battery Compartment:** Locate the battery compartment cover on the back of the charger and open it.
2. **Insert Batteries:** Insert 1.2V AA or AAA NiMH/NiCD rechargeable batteries into the designated slots. Ensure correct polarity: the '+' end of the battery should align with the '+' marking in the slot, and the '-' end with the '-' marking. For 9V

batteries, connect to the 9V battery terminals.

3. **Select Voltage:** Use the ON/OFF switch to select the appropriate voltage. Flip it up for 9V battery charging or down for 1.2V AA/AAA battery charging.
4. **Close Compartment:** Securely close the battery compartment cover.

Important: Only use rechargeable batteries (NiMH/NiCD). Do not attempt to charge alkaline or other non-rechargeable battery types.

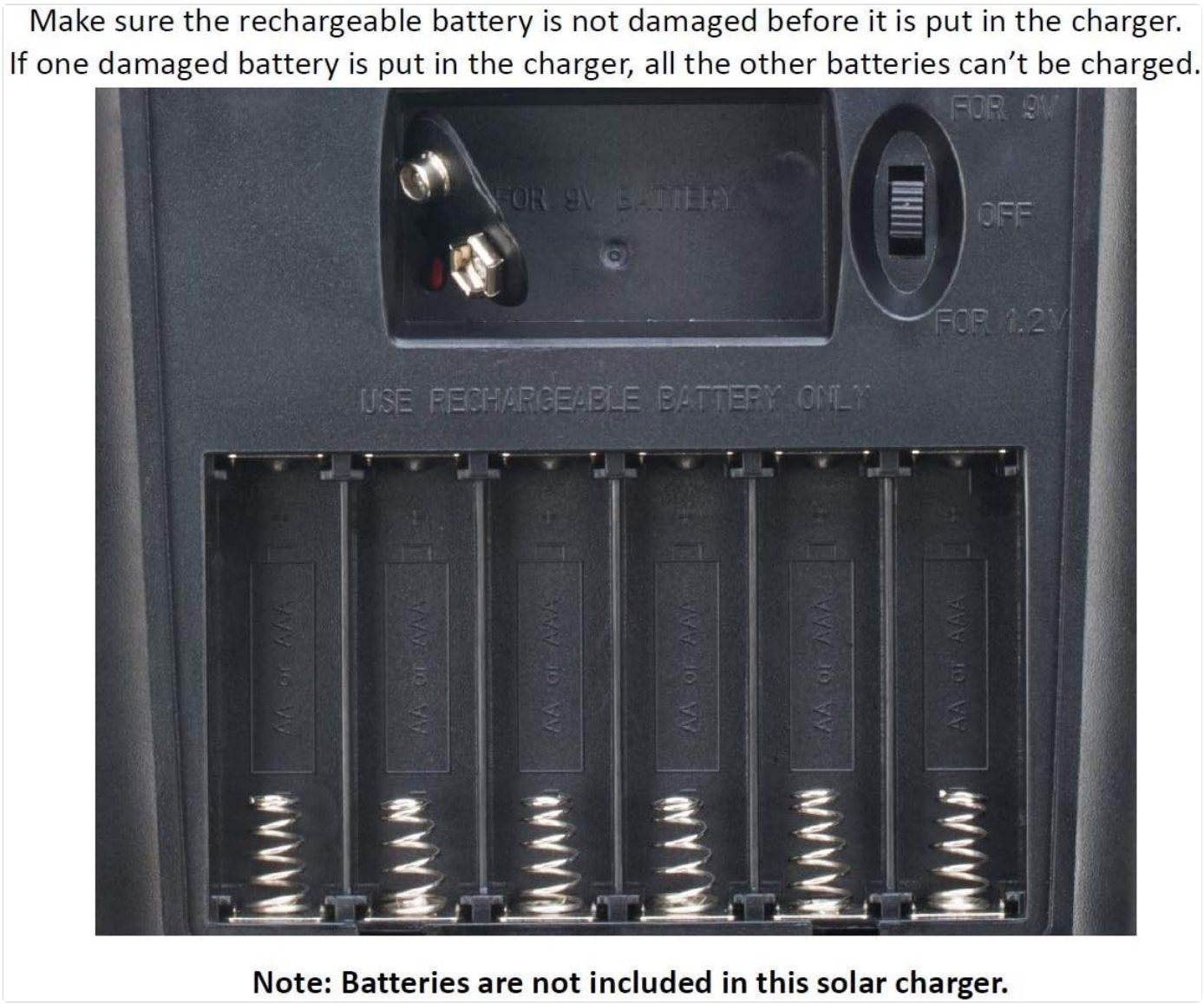


Figure 3: Battery compartment showing AA/AAA slots and 9V terminals.

4. Operating Instructions

1. **Position the Charger:** Place the solar charger in direct sunlight. For optimal charging, use the retractable handle as a stand to tilt the solar panel directly towards the sun.
2. **Monitor Charging:** The red LED indicator will illuminate when the solar panel is actively charging the batteries.
3. **Full Charge Indication:** The green LED indicator will light up when the batteries are fully charged. Note that if no batteries are inserted and the charger is under sunlight, the 'Battery Full' (green) LED may also illuminate.
4. **Charging Time:** Charging times vary depending on sunlight intensity and battery capacity. Under full sun (1000W/), the solar cell produces a minimum of 600mA per hour for 1.2V batteries and a minimum of 20mA per hour for 9V batteries. Solar charging is generally slower than AC charging.

5. **Remove Batteries:** Once fully charged, remove the batteries from the charger.
6. **Power Off:** When the solar battery charger is not in use, slide the ON/OFF switch to the OFF position to prevent power drain from any inserted batteries.



Figure 4: Red LED indicates charging.



Figure 5: Green LED indicates full charge.



Figure 6: Charger positioned for optimal sun exposure.

5. Maintenance

- **Cleaning the Solar Panel:** Keep the solar cell clean with a soft, dry cloth to ensure maximum power production. Dust or dirt can reduce charging efficiency.
- **Storage:** Store the charger in a cool, dry place when not in use.
- **Water Exposure:** This product is splash-proof, not fully waterproof. Do not leave it outside during rainfall or submerge it in water.

6. Troubleshooting

- **Charger Not Charging:**
  - Ensure the charger is placed in direct sunlight.
  - Verify that the ON/OFF switch is set to the correct voltage (9V or 1.2V).
  - Check battery polarity. Incorrect insertion will prevent charging.
  - Ensure batteries are rechargeable (NiMH/NiCD) and not damaged. A single damaged battery can prevent others from charging.
  - Clean the solar panel surface if it appears dirty.
- **Slow Charging:**
  - Solar charging is inherently slower than AC charging.
  - Ensure the solar panel is angled directly towards the sun for maximum exposure.
  - Cloudy conditions or indirect sunlight will significantly reduce charging speed.
- **Green LED On with No Batteries:** This is normal behavior when the charger is exposed to sunlight without batteries inserted.

7. Specifications

Brand	Sunway Solar
Model Number	SW-HC02
Color	Black
Input Voltage	Solar Power
Output Voltage	1.2 Volts (for AA/AAA), 9 Volts (for 9V)
Current Rating	Min. 600mA/hour (1.2V), Min. 20mA/hour (9V) under full sun
Number of Ports	7 (6 for AA/AAA, 1 for 9V)
Compatible Batteries	1.2V NiMH/NiCD (AA, AAA), 9V NiMH/NiCD

8. Important Safety Information

- Use only 1.2V NiMH/NiCD AA/AAA and 9V NiMH/NiCD rechargeable batteries. Charging non-rechargeable batteries may lead to leakage, rupture, or explosion.

- Ensure correct battery polarity (+/-) when inserting batteries into the charger.
- Do not expose the charger to extreme temperatures, open flames, or immerse it in water. It is splash-proof, not waterproof.
- Keep the charger out of reach of children.
- Do not disassemble or modify the charger. This may cause damage or injury.
- If a battery appears damaged, leaking, or excessively hot, discontinue use immediately and dispose of it properly.

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