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NDNCZDHC 3SYDC24V/S-50

NDNCZDHC 3SYDC24V/S-50 Solar Water Pump

Instruction Manual

1. Introduction

Thank you for choosing the NDNCZDHC 3SYDC24V/S-50 Solar Water Pump. This manual provides essential information for the safe and efficient use of your new pump. Please read these instructions carefully before installation and operation, and retain them for future reference.

This submersible solar water pump is designed for various applications including ships, fishing boats, fish ponds, and agricultural irrigation. It features a durable stainless steel and copper construction, a built-in controller, and is capable of a maximum lift of 50 meters with a flow rate of 1.5m^3/h.



Figure 1: Overview of the NDNCZDHC 3SYDC24V/S-50 Solar Water Pump.

2. Safety Information

Important Safety Instructions: Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- **Power Supply Verification:** Before connecting the pump, ensure that the power supply voltage (DC24V) is consistent with the pump's requirements. Incorrect voltage can cause damage to the pump.
- **Water Source Protection:** If the water source contains debris or other foreign matter, place the pump inside a protective bamboo basket or similar filter to prevent clogging of the pump's intake. Clogging can reduce efficiency and damage the pump.
- **Handling and Installation:** The pump must be lowered and raised using a strong rope attached to its designated handle. **Never pull the pump by its electrical cable**, as this can damage the cable and internal connections, leading to electrical hazards or pump failure.
- **Dry Running Prevention:** This is a submersible pump. **Do not run the pump dry** (without water), as this will cause

severe damage to the motor and seals. Ensure the pump is fully submerged before operation.

- **Electrical Connections:** All electrical connections should be made by a qualified professional and comply with local electrical codes. Ensure all connections are waterproof and secure.
- **Children and Pets:** Keep children and pets away from the pump and its operating area during use.

3. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of your solar water pump.

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all parts listed in the package contents are present.
2. **Connect Accessories:** Attach the provided connector and washer to the pump's interface. Ensure a tight and leak-free seal. The interface outer diameter is approximately 25mm (1 inch).
3. **Cable Management:** The pump comes with a 14-meter (45.9 ft) cable. Ensure the cable is not kinked or damaged.
4. **Submersion:** Securely attach a strong rope to the pump's handle. Gently lower the pump into the water source, ensuring it is fully submerged before connecting power. Remember to use a protective basket if the water source contains debris.
5. **Power Connection (Solar Panel):** The pump has a built-in controller and can be directly connected to a solar panel. Connect the pump's DC24V cable to your solar panel system, ensuring correct polarity (+ to + and - to -). A solar charge controller and battery may be integrated into your system for consistent power supply, as illustrated below.

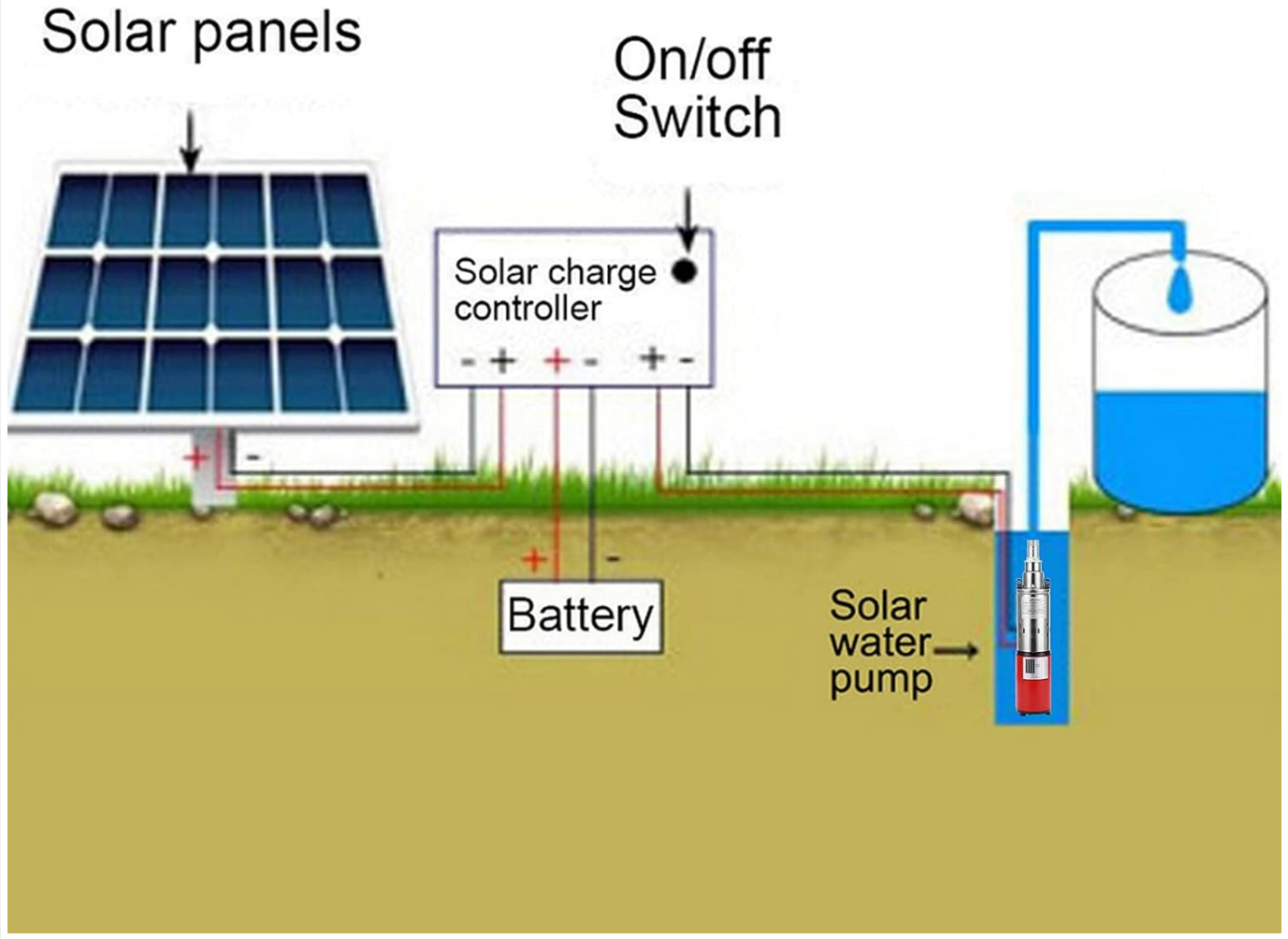


Figure 2: Typical solar panel connection diagram for the water pump. Note the optional solar charge controller and battery for system stability.



Figure 3: The pump unit with its attached power cable and a sealing O-ring.

4. Operating Instructions

Once the pump is correctly installed and fully submerged:

1. **Power On:** Connect the solar panel to the pump. If using a system with a switch, turn the switch to the "ON" position.
2. **Monitor Operation:** The pump should begin to draw water. Observe the water flow to ensure proper operation.
3. **Continuous Operation:** The pump is designed for continuous operation when sufficient solar power is available.
4. **Power Off:** To stop the pump, disconnect the solar panel or turn off the system switch.

5. Maintenance

Regular maintenance ensures the longevity and efficient performance of your pump.

- **Regular Cleaning:** Periodically remove the pump from the water and inspect the intake for any accumulated debris. Clean as necessary to prevent clogging.
- **Cable Inspection:** Regularly check the power cable for any signs of wear, cuts, or damage. Replace if necessary.

- **Connection Check:** Ensure all electrical and pipe connections remain secure and watertight.
- **Winterization (if applicable):** In freezing climates, remove the pump from the water before temperatures drop below freezing. Clean it thoroughly and store it in a dry, frost-free location.

6. Troubleshooting

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

Problem	Possible Cause	Solution
Pump does not start	No power supply; Incorrect wiring; Low solar irradiance; Damaged cable.	Check solar panel connection and output; Verify wiring polarity; Ensure sufficient sunlight; Inspect cable for damage.
Low water flow	Clogged intake; Air in the system; Insufficient water level; Damaged impeller.	Clean pump intake; Ensure pump is fully submerged; Check water level; Inspect impeller for damage.
Pump runs but no water	Pump not fully submerged; Airlock; Suction line leak.	Ensure pump is completely underwater; Bleed air from the system; Check all connections for leaks.
Pump stops unexpectedly	Intermittent power supply; Overheating; Debris blockage.	Check solar panel connection stability; Allow pump to cool; Clear any blockages.

If the problem persists after attempting these solutions, please contact the manufacturer or a qualified service technician.

7. Specifications

Detailed technical specifications for the NDNCZDHC 3SYDC24V/S-50 Solar Water Pump:

Model: 3SYDC24V/S-50

Item Type: Solar Water Pump

Material: Stainless steel + Copper

Working Voltage: DC24V

Working Current: 8A

Maximum Lift: Approx. 50 meters (164 ft)

Maximum Flow: 1.5 m^3/h

Interface Outer Diameter: Approx. 25mm (1 inch)

Cable Length: Approx. 14 meters (45.9 ft)

Delivery Medium: Clean water

Impeller Suction Method: Single suction

Pump Shaft Position: Side vertical

Drive Mode: Electric

Item Weight: 4.13 kg

Power Source: Corded Electric, Solar Powered

Specific Uses: Ships, fishing boats, fish ponds, agricultural irrigation




WATER PUMP
MODEL:3SYDC24V/S-50
Voltage:DC24V Outlet:25mm Max.Head:50m
Power:250W Current:8.0A Max.Flow:1.5m³/h
DO NOT RUN PUMP DRY
PAY MORE ATTENTION TO(+)&(-)
Panel
250W



Figure 4: The pump showing its model and basic specifications on the label.



Figure 5: Examples of typical applications for the solar water pump, including construction sites, wells, and agricultural irrigation.

8. Warranty and Support

Warranty Information: Specific warranty terms and conditions for the NDNCZDHC 3SYDC24V/S-50 Solar Water Pump are typically provided at the point of purchase or included with the product packaging. Please refer to your purchase documentation or contact your retailer for detailed warranty information.

Customer Support: For technical assistance, troubleshooting beyond this manual, or inquiries regarding parts and service, please contact NDNCZDHC customer support through their official channels or your product retailer. When

contacting support, please have your product model number (3SYDC24V/S-50) and purchase date readily available.

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