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ZYIY QGD-12V-200W-1

Instruction Manual

ZYIY QGD-12V-200W-1 12V 200W DC Solar Energy Deep Well Submersible Pump

1. Introduction

Thank you for choosing the ZYIY QGD-12V-200W-1 12V 200W DC Solar Energy Deep Well Submersible Pump. This manual provides essential information for the safe installation, operation, and maintenance of your pump. Please read these instructions thoroughly before use to ensure optimal performance and longevity of the product.

Your browser does not support the video tag.

Video: Overview of the ZYIY 3-inch solar submersible deep well pump, showcasing its design and features.

2. Safety Information

- **Electrical Safety:** Always confirm that the voltage and frequency of your power source are compatible with the pump's specifications before connection. Incorrect voltage can damage the pump and pose a safety risk.
- **Wiring Precautions:** When connecting the pump, ensure correct polarity. The**red wire is positive (+)** and the **black wire is negative (-)**. Incorrect wiring can lead to pump malfunction or electrical hazards.
- **Dry Operation:** **It is strictly prohibited to operate the pump without water.** Running the pump dry will cause severe damage to the motor and void the warranty. Ensure the pump is fully submerged before starting.
- **Installation Depth:** Ensure the pump is installed at an appropriate depth within the well. Operating the pump too close to the bottom can draw in sediment, while operating it above the water level will lead to dry running.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified professional.

3. Product Overview

The ZYIY QGD-12V-200W-1 is a robust 12V 200W DC solar energy deep well submersible pump designed for efficient water transfer from deep wells. It features a durable stainless steel body and a pure copper motor for reliable performance.

Key Features:

- **Power:** 12V-200W DC operation, suitable for solar energy systems.
- **Flow Rate:** Maximum 10 Gallons Per Minute (GPM).

- **Head:** Maximum lifting height of 131 feet (40 meters).
- **Construction:** Overall stainless steel fuselage, copper motor wire, SS screw material, and high-quality rubber components for durability and corrosion resistance.
- **Portability:** Lightweight and compact design for ease of handling and installation.

Components:



Image: Exploded view illustrating the main components of the submersible pump.

The pump consists of a stainless steel outer casing, a powerful pure copper motor, a water inlet with filtration, and a cast iron water outlet. The integrated cable provides power connection.



Image: Detail of the pump's pure copper motor, ensuring efficient and reliable operation.

4. Setup

Proper setup is crucial for the safe and efficient operation of your deep well pump.

Installation Steps:

1. **Prepare the Well:** Ensure the well is clear of debris and has sufficient water depth for the pump to be fully submerged.
2. **Connect Piping:** Attach appropriate piping to the pump's outlet. Ensure all connections are secure and watertight to prevent leaks.
3. **Secure the Pump:** Lower the pump into the well using a strong rope or cable attached to the designated eyelets. Ensure the pump hangs freely and does not touch the bottom or sides of the well.
4. **Electrical Connection:** Connect the pump's power cable to your 12V DC power source (e.g., solar charge controller, battery bank). Remember: **red wire to positive (+)**, **black wire to negative (-)**.
5. **System Integration:** If using a solar panel system, connect the solar panels to a compatible charge controller, and then connect the controller to the pump and battery bank (if applicable).



Image: Typical solar water pumping system setup, illustrating connections from solar panels to the pump and water storage.

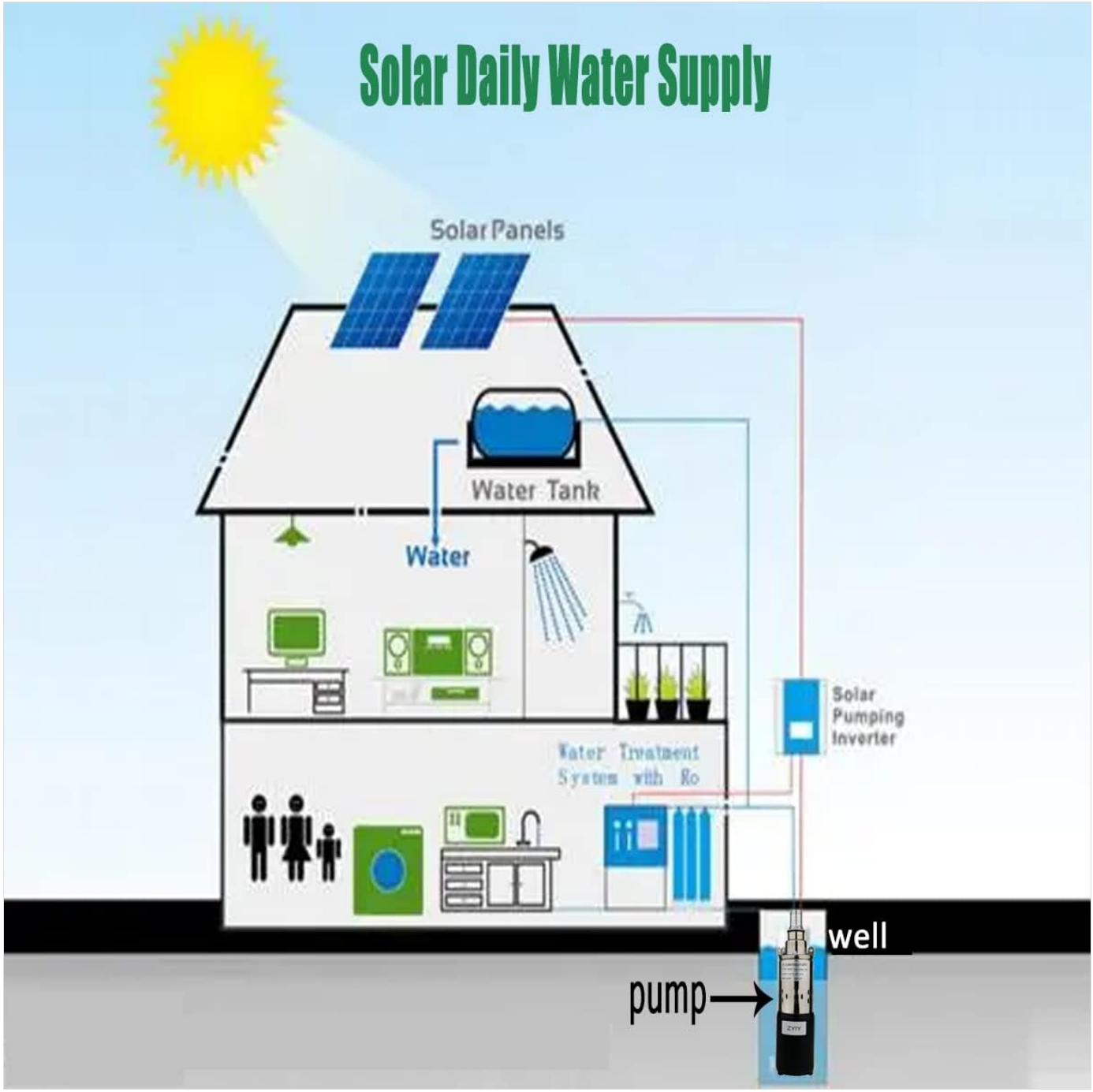


Image: Schematic of a solar-powered water supply system for a home, demonstrating how the deep well pump integrates into the household water infrastructure.

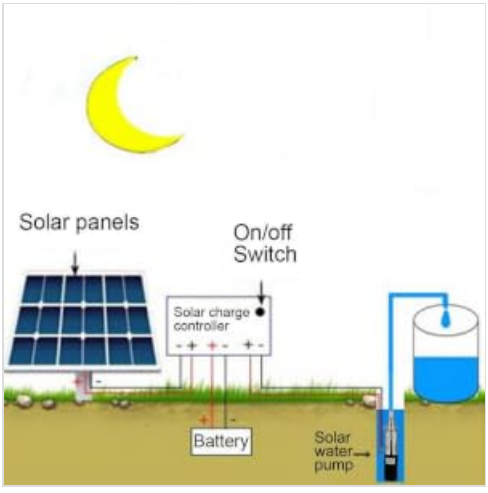


Image: Diagram showing a solar charging system with battery backup for continuous water supply, even during nighttime or low sunlight conditions.

5. Operating Instructions

Once the pump is correctly installed and submerged, operation is straightforward.

1. **Initial Start-up:** After ensuring all connections are secure and the pump is fully submerged, activate the power supply to the pump. The pump should begin drawing water.
2. **Monitor Water Flow:** Observe the water flow to ensure it is consistent and free of air. Air in the lines can indicate improper priming or insufficient water level.
3. **Continuous Operation:** The pump is designed for continuous operation within its specified limits. However, avoid running it dry.
4. **Shut Down:** To turn off the pump, simply disconnect the power supply.



Image: Visual guide demonstrating the correct water level for pump submersion to prevent dry running and ensure efficient operation.

6. Maintenance

Regular maintenance helps extend the life of your pump and ensures consistent performance.

- **Periodic Inspection:** Periodically inspect the pump and its connections for any signs of wear, damage, or corrosion. Check the power cable for fraying or damage.
- **Clean Water Inlet:** If the well water contains sediment, the pump's water inlet screen may become clogged. Periodically remove the pump and clean the inlet screen to maintain optimal flow.
- **Winterization (if applicable):** In regions with freezing temperatures, if the pump is not in continuous use, it should be removed from the well and stored in a frost-free environment to prevent damage from freezing water.
- **Storage:** When storing the pump, ensure it is clean and dry.

7. Troubleshooting

This section addresses common issues you might encounter with your ZYIY deep well pump.

Problem	Possible Cause	Solution
Pump does not start	No power; incorrect wiring; motor fault.	Check power supply and connections. Verify red wire is positive, black is negative. If power is present and wiring is correct, motor may be faulty; contact support.

Problem	Possible Cause	Solution
Low or no water flow	Pump not fully submerged (dry running); clogged inlet screen; insufficient water in well; pipe blockage; pump operating beyond its maximum head.	Ensure pump is fully submerged. Clean inlet screen. Check well water level. Inspect piping for blockages. Verify pump is not attempting to lift water beyond its 131ft (40m) maximum head.
Pump runs but no water is delivered	Pump not primed; air in the system; water level too low; check valve issue.	Ensure pump is fully submerged. Check for leaks in the piping that could introduce air. Allow pump to run for a short period to self-prime if possible, or manually prime if system allows. Verify well water level.
Pump stops unexpectedly	Overheating; power interruption; dry running.	Check for consistent power supply. Ensure pump is always submerged to prevent overheating from dry running. Allow pump to cool down before restarting.

8. Specifications

Specification	Detail
Brand	ZYIY
Model Number	QGD-12V-200W-1
Voltage	12 Volts DC
Power	200 Watts (0.2 Horsepower)
Maximum Flow Rate	10 Gallons Per Minute (GPM)
Maximum Lifting Height	131 Feet (40 Meters)
Material	Stainless Steel
Product Dimensions (L x W x H)	15.7" x 3.1" x 6.1"
Power Source	Solar Power, Corded Electric (12V DC)

9. Warranty and Support

For warranty information and customer support, please refer to the documentation provided at the time of purchase or contact the seller directly. ZYIY is committed to providing quality products and assistance.
You can visit the official ZYIY Store for more information.

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