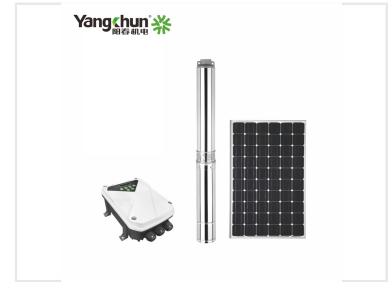


# 4" 4T/h DC Solar Water Pump

This 4" DC solar pump delivers a flow rate of 4 tons per hour. It is suitable for irrigation, livestock watering, and domestic water supply in off-grid locations.



## ADDITIONAL IMAGES



## Overview

### High-Efficiency Solar Pumping Solution

This 4" DC solar water pump is powered by a high-efficiency permanent magnet brushless motor designed for direct integration with solar photovoltaic arrays. It features an advanced controller with sine wave start commutation that automatically optimizes voltage and current to maximize operating efficiency. Built for durability in off-grid environments, the system includes comprehensive automatic protection technologies to ensure a long service life for both the pump and controller.

## Key Performance Metrics

### Performance Highlights

**4 m<sup>3</sup>/h**

Max Flow Rate

**3600 r/min**

Rated Speed

**4 inch**

Pump Diameter

## Technical Specifications



Comprehensive performance curves and PV array configuration guidelines for various pump models.

### Model Performance Data

Model	Power (W)	Voltage (VDC)	Max Head (m)
4TY4-22/4-600W/60V	600	60	42
4TY4-30/6-750W/72V	750	72	56
4TY4-39/9-900W/96V	900	96	72
4TY4-52/12-1200W/110V	1200	110	95
4TY4-67/14-1500W/110V	1500	110	116
4TY4-100/20-2200W/280V	2200	280	155

## Safety & Protection

### Smart Controller Functions

- Under-voltage protection to prevent battery deep discharge
- Overvoltage protection via automatic power cutoff
- Water shortage protection (auto-stop after 3 minutes)
- Automatic overload protection (auto-stop after 2 minutes)
- Automatic card machine protection with reverse operation
- High-temperature thermal protection

### Protection Standards

Dry-Run Protection • Overload Protection • Low Voltage Protection • Thermal Protection

## Hardware Construction

Motor Technology	Permanent Magnet Brushless DC Motor
Pump Material	Stainless Steel

## Applications

Recommended Applications	Irrigation, Livestock Watering, Domestic Water Supply, Off-grid Locations
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## Solar Configuration

### Solar Panel Configuration Examples

- 600W/60V: 2x 330W/36V (Series) or 2x 380W/40V (Series)
- 750W/72V: 3x 270W/30V (Series)
- 900W/96V: 3x 330W/36V (Series)
- 1200W/110V: 4x 330W/36V (Series)
- 2200W/280V: 10x 270W/30V (Series) or 8x 330W/36V (Series)