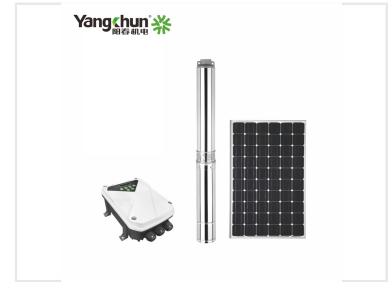


DC Solar Water Pump 4-6T/h

This DC solar water pump is designed for water pumping applications using solar power. It is suitable for irrigation, livestock watering, and domestic water supply with a flow rate of 4 to 6 tons per hour.



ADDITIONAL IMAGES



Product Overview

High-Efficiency DC Solar Pumping Solution

This 4-inch DC solar water pump system is designed for sustainable water management in off-grid environments, delivering flow rates between 4 to 6 tons per hour. Powered by a high-efficiency permanent magnet brushless motor and a dedicated solar photovoltaic array, it eliminates the need for grid connection or batteries. The system is ideal for agricultural irrigation, livestock watering, and domestic supply, offering a cost-effective and environmentally friendly alternative to traditional pumping methods.

Core Performance

Key Performance Metrics

3600 r/min

Rated Speed

6 m³/h

Max Flow Rate

132 m

Maximum Head

Technical Specifications



Detailed performance curves and recommended solar panel array configurations for various power ratings.

Model Specifications Table

Model	Power (W)	Voltage (VDC)	Max Head (m)
4TY6-22/5-750W/72V	750	72	45
4TY6-27/6-900W/96V	900	96	55
4TY6-39/8-1200W/110V	1200	110	67
4TY6-51/11-1500W/110V	1500	110	92
4TY6-80/16-2200W/280V	2200	280	132

Intelligent Controller Functions

Safety & Protection Systems

- Under-voltage protection to extend battery/system lifespan
- Overvoltage protection for circuit safety
- 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

Motor & Drive Technology

Motor Technology	Permanent magnet brushless motor
Drive Method	Sine wave start commutation

Application & Materials

Pump Material	Stainless steel
Recommended Uses	Agricultural Irrigation, Livestock Watering, Domestic Water Supply, Remote Area Water Supply

Solar Configuration

PV Array Configurations

- 750W/72V: 270W/30V x 3PCS (Series) or 380W/40V x 2PCS (Series)
- 900W/96V: 330W/36V x 3PCS (Series)
- 1200W/110V: 330W/36V x 4PCS (Series)
- 1500W/110V: 330W/36V x 6PCS (2P3S)
- 2200W/280V: 270W/30V x 10PCS (Series) or 330W/36V x 8PCS (Series)