

DC Solar Water Pump 4" 2T/h

This DC solar water pump is designed for water pumping applications using solar energy. It provides a sustainable and cost-effective solution for water management, suitable for irrigation, livestock watering, and domestic water supply.



ADDITIONAL IMAGES



Overview

High-Efficiency DC Solar Pumping Solution

This 4-inch DC solar water pump is a high-efficiency solution powered directly by solar photovoltaic arrays, featuring a permanent magnet brushless motor for optimal performance. Designed for durability and corrosion resistance with stainless steel construction, it is ideal for agricultural irrigation, livestock watering, and domestic water supply in remote areas. The system includes an intelligent controller that automatically adjusts voltage and current to maximize efficiency while providing comprehensive protection for a long service life.

Key Features

Motor Technology	Permanent magnet brushless motor
Material	Stainless steel
Control System	Sine wave start commutation with automatic output adjustment

Performance Data

Power Range

0.6 kW

Min Power

1.5 kW

Max Power

Maximum Head	162 m
Maximum Flow Rate	3.5 m ³ /h
Rated Speed	3600 r/min

Intelligent Protection

Controller Protection Functions

- Under-voltage protection (prevents battery over-discharge)
- Overvoltage protection (automatic power cut-off)
- Water shortage protection (3-minute detection auto-stop)
- Automatic overload protection (2-minute auto-stop)
- Automatic card machine protection (reverse run and restart)
- Automatic high-temperature protection

Technical Specifications



Detailed performance curves and model specifications for the 4-inch DC solar pump range.

Model Performance Comparison

Model	Power (kW)	Voltage (VDC)	Max Head (m)
4TY2-36/6-600W/60V	0.6	60	68
4TY2-48/8-750W/72V	0.75	72	84
4TY2-63/11-900W/96V	0.9	96	100
4TY2-78/14-1200W/110V	1.2	110	129
4TY2-100/18-1500W/110V	1.5	110	162

Applications

Recommended Uses

Agricultural Irrigation, Livestock Watering, Domestic Water Supply, Remote Area Water Management, Photovoltaic Systems