

# Solar Powered Water Pumping System

This system uses solar energy to automatically pump water, especially in areas lacking electricity. It is an ideal green energy system that integrates economic, reliability and environmental benefits with minimal maintenance.



## Overview



High-efficiency submersible pump and intelligent controller unit.

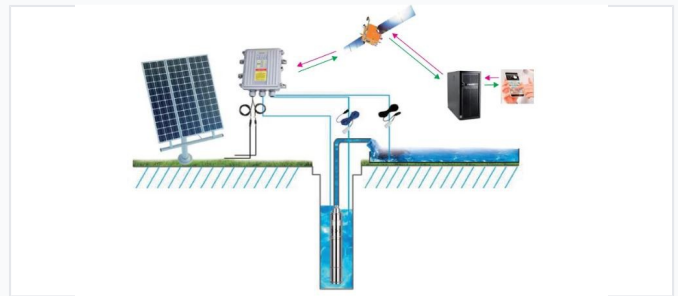


Diagram showing photovoltaic panel connectivity and water extraction flow.

## Sustainable Solar Pumping

This solar-powered water pumping system utilizes photovoltaic energy to provide a reliable and autonomous water supply, making it ideal for remote regions lacking conventional power infrastructure. Designed for efficiency and minimal maintenance, the system automates operation based on solar availability and features a robust stainless steel construction for long-term reliability. It is a complete green energy solution suitable for diverse applications including irrigation, livestock watering, and domestic water supply.

## Technical Specifications

### Performance & Technical Data

Model	Power	Voltage Range	Max Flow	Max Head
25/25-D72/1000	1000W	30-100 VDC	25 m <sup>3</sup> /hr	25 Mtrs
30/15-D72/1000	1000W	30-100 VDC	30 m <sup>3</sup> /hr	15 Mtrs
36/18-D90/1350	1350W	30-132 VDC	36 m <sup>3</sup> /hr	18 Mtrs

## Component Details



Precision-engineered internal motor and pump housing components.

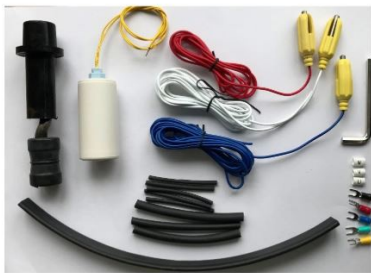
### Material Specifications

- Outlet: 304 Stainless Steel
- Pump Body: 304 Stainless Steel
- Motor Body: 304 Stainless Steel
- Bearing: NSK
- Impeller: 304 Stainless Steel
- Screw: 316 Stainless Steel

### Drive & Control System

Full oil Permanent Magnet Brushless DC Motor, 32bit MCU, FOC Sine Wave Current MPPT

## Included Accessories



ITEMS	QUANTITY
Spare screw	1
Float switch for water source	1
Tank level sensors	3
Heat-shrinkable tube	1
Terminals	5
Allen key	1

Standard maintenance kit including float switches and level sensors.

### Standard Kit Components

- 1x Float switch for water source
- 3x Tank level sensors
- 5x Electrical terminals
- 1x Spare screw
- 1x Heat-shrinkable tube
- 1x Allen key