

# 4-Inch Solar Powered Submersible Screw Pump

This submersible pump is powered by solar modules and controlled by a solar pump controller. It provides an automated, maintenance-free, and eco-friendly solution for water needs, replacing energy storage with water storage.



## Overview

### High-Efficiency Solar Water Extraction

This 4-inch submersible screw pump is engineered for reliable water extraction in deep well, irrigation, and remote water supply applications. Utilizing a permanent magnet brushless DC motor and advanced MPPT controller technology, it offers an eco-friendly and cost-effective pumping solution. The robust stainless steel construction ensures long-term durability and corrosion resistance in demanding environments.

## Technical Specifications

### Controller Technology

- 32-bit MCU
- FOC (Field Oriented Control)
- Sine Wave Current
- MPPT (Maximum Power Point Tracking)

### Motor Type

Full Oil Permanent Magnet Brushless DC Motor (Without Hall)

## Construction & Materials

### Material Composition

Component	Material
Outlet	Stainless Steel
Pump Body	Stainless Steel
Motor Body	Stainless Steel
Controller Shell	Die-cast Aluminum

### Protection Rating

IP67

## Certifications

### Compliance

CE, ISO 9001:2000