

Solar Powered Seawater Desalination System

This system is specialized for seawater and brackish water desalination, providing a one-stop solution for remote areas. It optimizes water processing and purification in stages according to available solar power, adapting to complex weather conditions for a stable water supply.



Product Overview

Solar Powered Desalination Solution

This advanced desalination system provides a comprehensive, sustainable solution for converting seawater and brackish water into clean, potable water. Designed specifically for remote and off-grid locations, it utilizes solar photovoltaic energy to power the reverse osmosis process, minimizing reliance on external power grids. With intelligent energy management, automated monitoring, and scalable architecture, this system ensures a reliable water supply even in complex weather conditions.

Technical Capabilities

Integrated Monitoring

- TDS Levels
- PH Levels
- Water Storage Capacity
- Water Quality Protection
- Water Level

Suitable Water Sources

Seawater, Brackish Water

Scalable Infrastructure

Yes

Energy & Efficiency

Energy Management

- Solar direct drive technology
- Inverter-based power conversion
- Energy storage module integration
- Priority setting for water or power supply

Operational Flexibility

Daytime Solar Operation • 24-Hour Operation (Optional Hybrid Module)