



TECHNO

SOLAR PUMPING SYSTEM



Making World Better



Company Profile



TECHNO GROUP of industries having over Three decades of successful leadership behind it in manufacturing & marketing of Pumps, Motors & Elevators has been promoted by Visionary, Humble & Dynamic Engineering Technocrats.

In this arena the World is facing fuel crisis and Governments of the entire Globe is aggressively doing Research & Development on harnessing the Solar Energy.

We, at Techno Industries Private Limited, recipient of two National Awards from Government of India, have designed and developed Solar Pump sets in various ranges available from 0.5 HP to 200 HP in both versions of AC & DC.

We have been empaneled as Channel Partner with Ministry of New Renewable Energy (MNRE), Government of India.

Our motto is to make the World Green.

Certifications



ISO 9001:2015
Certified



ISO 14001: 2015
Certified



OHSAS 18001: 2007
Certified



ISI Certified

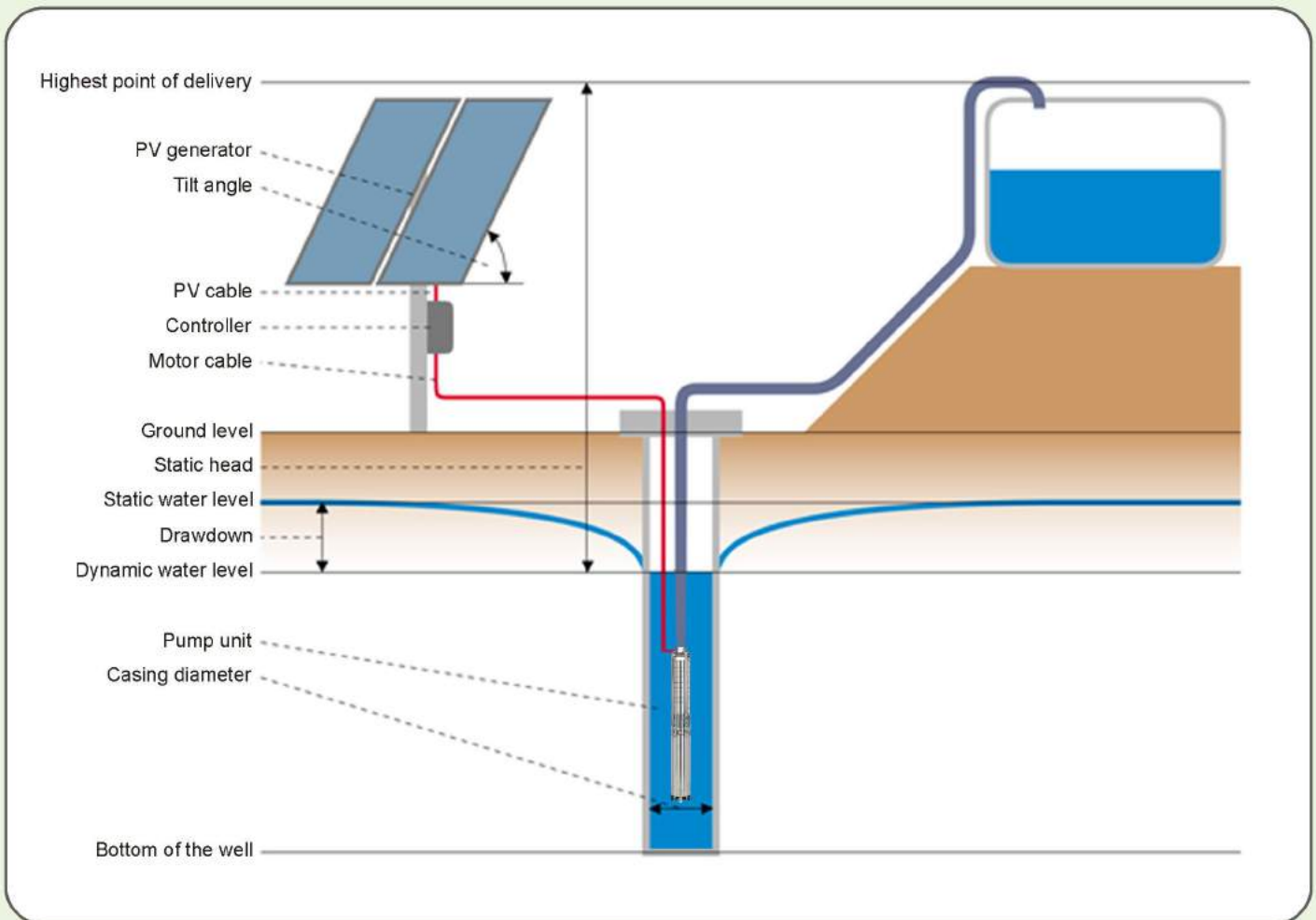


CE-RS-1802-2999
Certified



SOLAR PUMPING SYSTEM

Layout of Solar Pumping System



How It Works ?

The SPV System converts solar radiation into DC Power with help of Photovoltaic Panels. The generated DC Power is converted to ensure maximum AC/ DC Power as suitable for specially designed AC/DC Solar Pump with the help of a solar pump controller equipped with drive & MPPT. This is how solar energy is converted to electrical energy and then electrical energy converting to hydraulic energy. Solar Pump Set draws water from aquifers.



SOLAR PUMPING SYSTEM

Solar Energy is harnessed for generating power as well as for pumping out water from Tube wells/Lakes/Canals/Reservoirs and shallow well. Techno Industries Pvt. Ltd. has developed Solar Pump sets as per following specifications:

Specifications

- Ratings : 0.5 HP (0.37 Kw) to 200 HP (150 Kw)
- Version : AC / DC
- Type : Submersible Pump Sets/ Mono Block Pump sets.
- Application : Tube well / Open well / Surface Pumps.
- Our Pump sets up to 10 HP are MNRE approved.

For ratings above 10 HP, technical specifications and Prices are available on request.

Application

- Irrigation & Sprinklers
- Drinking water supply & RO system
- Fountains, Ponds & Gardens
- Industrial Application

Advantages

- Zero running cost
- Eco-friendly
- Simple installation
- Less Maintenance
- Pollution Free





SOLAR PUMPING SYSTEM

Components of Solar Pumping System

- Solar Photovoltaic Modules (Panels)
- Modules (Panels) Mounting Structure
- Solar Pump Set
- Solar Controller / Drive
- DC / AC Cables & Connectors

Solar Pump Set

- All parts of motor in contact with water are made of high grade Stainless Steel
- Robust Construction for High Reliability
- Easy start at low voltage and works in wide voltage band.
- Dynamically balanced rotating parts
- 100% high grade stainless steel
- Maintenance free DC/AC branded pumps fit and forgets.

Solar Photovoltaic Modules

- Superior conversion efficiency
- Rigorous quality control as per International Benchmarks
- High withstand capacity of wind pressure and snow load
- Modules come with performance warranty of minimum of 90% for 10 yrs and 80% up to 25 yrs.
- It shall perform satisfactorily with temperatures between -10 deg C & +85 Def C.
- Each Module is provided with external label consisting details of manufacturer, module number, electrical rating, approvals

Solar Pump Controller

- Over voltage, Low voltage, Dry run, Overload & Earth fault protection
- Remote Monitoring of parameters possible
- LCD display shows Frequency (%), input DC voltage, Output AC voltage and current, input power (Kw/Kwh) with system status.
- MPPT- Maximum power point tracking for maximizing the efficiency of input power.
- Soft start feature prevents water hammering and thus increases system life.



Our Other Products

- Induction Motors
- Submersible Pump Sets
- Open well Pump Sets
- Mono block Pump sets
- Fire Fighting Pump Sets
- Elevators

Achievement

- National Award Winner In R & D



TECHNO

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