



Renewable Energy Redefined

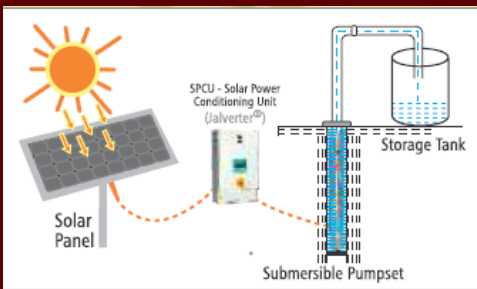
SOLAR PUMPING SYSTEM

Components of a typical solar pumping system:

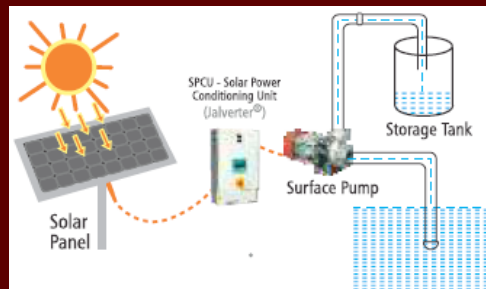
- ◆ Pump and motor set
- ◆ Solar power conditioning unit
- ◆ Solar PV modules
- ◆ Module Mounting Structure
- ◆ Pipes and Cables
- ◆ Foundation set (structure base, foundation bolts and civil construction material - cement, and and stones)
- ◆ Earthing kit

Our range and offerings

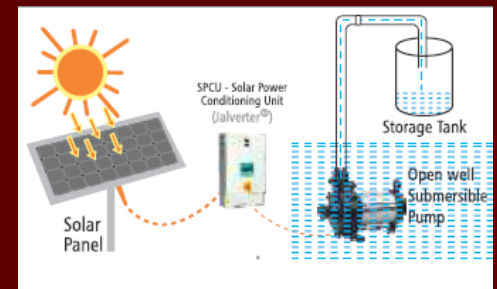
Parameters	Solar Borewell Submersible	Solar Surface	Solar Openwell Submersible
Water output under the "Average Daily Solar Radiation" condition of 7.15kWh/sq.m. on the surface of PV array	4,000 to 800,000 litres per day	7,000 to 1,200,000 litres per day	10,000 to 600,000 litres per day
Total Dynamic Pump Head	5 to 310 metre	5 to 60 metre	5 to 60 metre
Solar Modules Wattage	900 to 32,000 Wp	900 to 34,000 Wp	900 to 21,000 Wp



Solar Borewell Submersible Pumping System



Solar Surface Pumping System



Solar Borewell Submersible Pumping System

Motors for solar pump sets:

- ◆ Up to 2 HP rating: 120V 3-phase AC, 50Hz induction motors as standard, which work with varying frequencies according to the variation in the intensity of sunlight .
- ◆ Up to 3 HP rating: 230V 3-phase AC, 50Hz induction motors as standard, which work with varying frequencies according to the variation in the intensity of sunlight .
- ◆ From 4 to 30 HP rating: 415V 3-phase AC, 50Hz induction motors (for 7.5 HP 330V, 3-phase AC, 50Hz as standard), which work with varying frequencies according to the variation in the intensity of sunlight .
- ◆ Motor ratings above 30 HP and up to 50 HP are also offered against special requirements.

Customized motors, with voltages 90V, 330V, 380V, etc. other than standard rating voltage and frequencies varying from 40 to 85 Hz can also be supplied to meet special requirements of customers.

Solar PCU:

- ◆ PCU adopts double DSP IGBT with pure sine wave output.
- ◆ Built in multiphase interleaved MPPT charge controller from PCU.
- ◆ Pure sine wave inverter and grid charger.
- ◆ Charges the battery bank through either solar or grid/DG set.
- ◆ The PCU continuously monitors the state of battery voltage, solar power output and load, automatically switches between grid/battery banks.
- ◆ The PCU always gives preferences to solar power and will use grid/DC only when solar power or battery charge is unable to meet the load requirement.
- ◆ Inbuilt Power Monitoring with Data Logger System.
- ◆ Covered with 3 years warranty.

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