

SOLAR Pumping system

Right idea at the right time

Driven by a Vision



Enriching Lives

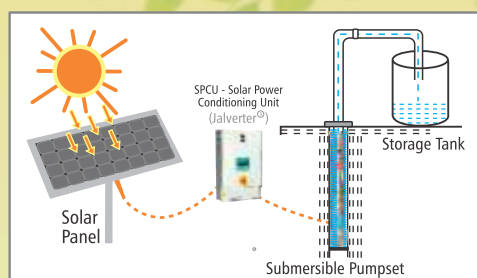
Components of a typical Solar Pumping System:

- Pump and motor set
- Jalverter[®] (Solar power conditioning unit)
- Solar PV modules
- Module Mounting Structure (With/without tracking – manual /automatic)
- Pipes and cables
- Foundation set (Consists of foundation bolts, structure base and civil construction material - cement, sand and stones)
- Earthing kit

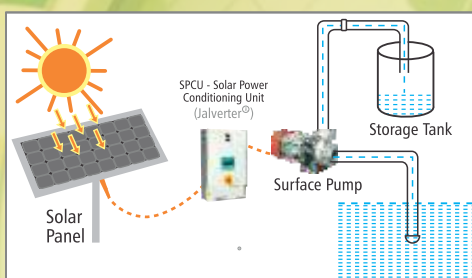


Our range and offerings

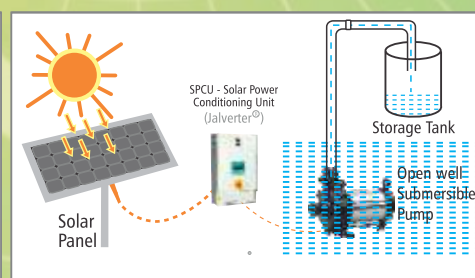
Parameters	Solar Borewell Submersible	Solar Surface	Solar Openwell Submersible
Water output under the "Average Daily Solar Radiation" condition of 7.15kWh/sq.m. on the surface of PV array	4,000 to 800,000 litres per day	7,000 to 1,200,000 litres per day	10,000 to 600,000 litres per day
Total Dynamic 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 Openwell Submersible Pumping System

KIRLOSKAR BROTHERS LIMITED

A Kirloskar Group Company
Established 1888

Motors for solar pump sets:

- Up to 2 HP rating: 120 V, 3-phase AC, 50 Hz induction motors as standard, which work with varying frequencies according to the variation in the intensity of sunlight.
- For 3 HP rating: 230 V, 3-phase AC, 50 Hz induction motor as standard, which work with varying frequencies according to the variation in the intensity of sunlight.
- From 4 to 30 HP ratings: 415 V, 3-phase AC, 50 Hz Induction motors (for 7.5 HP 330 V, 3 Phase AC, 50 Hz 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 90 V, 330 V, 380 V, etc. other than standard rating voltage and frequencies varying from 40 to 85 Hz can also be supplied to meet special requirements of customers.

Jalverter®

Salient Features and Benefits of this Unique SPCU

■ High operating efficiency

- Inbuilt MPPT (Maximum Power Point Tracking) and soft start.
- SVPWM three phase output with maximum conversion efficiency of 98%. Complies with requirements of international standards like IEC 61683 and IEC 60068 -2 as well as MNRE guidelines.
- Variable frequency and variable voltage operation as per the variation in the intensity of sunlight.

■ Reliability- failsafe and fool-proof

- Sensor-less dry run protection
- Under voltage and over voltage protection
- Reverse polarity protection
- Soft start for the AC induction motors
- Output short circuit protection
- Phase imbalance protection
- Provided with Certified IP 54 enclosure having DC switch and surge suppressor.

■ Ease/comfort of operation and maintenance

- Auto start and stop as per solar intensity
- LED & LCD display indicating system health and enables parameter monitoring
- Wide network of Kirloskar dealers and authorised service centers
- AC Induction motor technology facilitates local servicing and maintenance across India
- Optional Add-on "Dual Mode Unit" for operating pump either on solar power or grid power
- Provision for remote monitoring

■ Versatility and flexibility of use

- Technology is generic and scalable up to 75 HP motor capacity against customer's requirement



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