



Solar **Pump Sets** Installed

ZONE	QUANTITY
India (Haryana, Punjab, Rajasthan, Maharashtra, UP, Bihar, MP, CG.)	250000
Abroad (Africa, Asia, Europe & Middle East)	30,000+
Turnkey Installation	2500











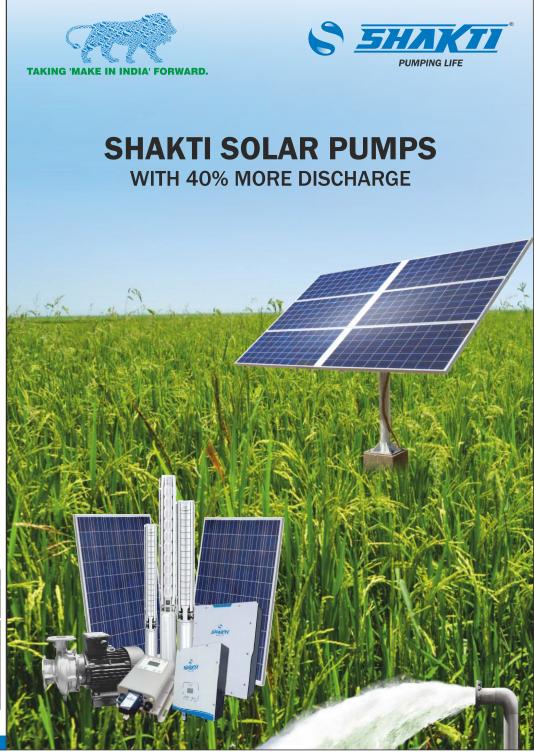




SHAKTI PUMPS (INDIA) LIMITED

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Why Brand Shakti?

- Shakti- a synonym for Efficiency, Reliability, Durability and After Sales Service
- 1st manufacturer of energy efficient pumps and motors & 100% stainless steel pumps
- · India's largest manufacturer of solar pumps & largest exporter of submersible pumps
- Manufacturer of India's largest solar pump of 40 HP rating commissioned in Middle East
- "India's Most Trusted Solar Pump Manufacturer" by Tata, JAIN, SunEdison & over 200 Corporate OEMs

What does Shakti Solar **Pumping System consist of?**

- Solar PV Modules & Mounting Structure with double axis manual tracking & Anti theft nuts
- Solar Pump Motor set with Controller (DC/AC)
- Suitably engineered Pipes, Cable & Accessories complete with Earthing Kit & Switches
- Strong and stable foundation for lasting longer
- Site survey for appropriate pump selection
- Installation/commissioning & training to use solar pump

Why Shakti Solar Pump?

Shakti Solar Pumps have better hydraulic impeller & casing/diffuser designs and sheet metal stainless steel parts for smooth hydraulic passages; which ensure higher efficiencies in pumps. Shakti Solar Motors are specially designed for high efficiency and long life. That is why they give more discharge than other solar pumps of same rating. An ordinary solar pump is not as efficient as a Shakti Solar Pump. It draws more current than equivalent Shakti Solar Pump with the same water output as Shakti Solar Pump. An ordinary solar pumps start late after sunrise and shut early; or require more solar PV panels, to deliver the same water as a Shakti Solar Pump. Shakti product is also more reliable & more durable than others and are built for long life. It is backed by authorized service centres all around the country, where trained technicians handle service quickly and efficiently.

Benefits of Shakti Solar Pump

- Max. 5 years extended warranty on pump, motor & controller
- · More water discharge than other equivalent pumps due to high efficiency pumps and
- · All parts of pumps & motors are made of stainless steel: which when in touch with water, stay rust-free
- · Reliable and Durable as the Sun
- · Investment payback in less than 4 years and Gain for the next 20 years
- · Backed by nationwide service
- · Indigenously designed and made in India.

Technical Features

- · Starts and stops automatically after sunrise and close to sunset
- Dry Run Protection i.e. controller switches off the motor pump set if there is no water, preventing nump blockage
- Protections against Over-voltage, Under-voltage, Short Circuit, Phase imbalance, Cut cable, Lightening Strike
- · Remote monitoring and control inbuilt.
- Anti theft fasteners, which make it impossible for thieves to remove solar panels from structure unless solar panels are broken or steel frame itself
- One of the widest duty range of pumps from 0.5 HP to 335 HP with heads upto 600 meters
- · Mounting Structure that can withstand wind speeds upto 150 km/hr
- Mounting structure elements made of hot dip galvanized metal with 80 micron thickness for long corrosion free life.



What is a Solar Pump?

A Solar Pump has PV panels that convert solar energy into electricity that drives motors and pumps. Thus, water from a well, river, lake or tube well can be drawn/circulated using solar energy.

Why Solar Pump?

With solar pumps, a farmer can cultivate 3 crops a year, which earlier was not possible because of lack of power availability or costlier operation through diesel. Solar pumps enable crop irrigation during daytime because they make food from sunlight, CO2 and water. Water given at night anyway gets wasted. Other benefits are:

- One time investment delivers profits year after year for long life
- · Freedom from unreliable grid power or diesel/ kerosene driven pumps
- No motor burnouts/ transformer burnouts
 Easy to operate in remote areas too
- Zero running cost, as sunlight is free (only protection & cleaning of solar panels required)
- No pollution of air (carbon emission free pump), water or sound

How does a Solar Pump work?

Solar pumps operate using three main components. Solar cells collect the sun's rays and convert them into usable electricity. These cells are usually covered in silicon or another semiconductor material that produces direct-current electricity. Wiring moves the electricity from the cells to the pump, and the pump does the work of moving the water. As sun rises, intensity in sunlight slowly increases and starts driving a pump say 1-2 hours after sunrise. Current and pump flow increase from morning to noon and then decrease from noon to evening.

Help us to help you select

To select the most suitable solar pump model to fulfill your need/application, we need from you:

- (1) Total daily water need in litres/ day for your application
- (2) Vertical distance/ depth/ height through which water is to be raised in meters or feet
- Total pipeline length (in meter or feet) from pump discharge to water delivery point and pipe diameter (mm)
- If water is entering any drip/sprinkler/filter system which needs minimum pressure to work satisfactorily?
- (5) If yes, how much?

Do share the above data with us so that we select just the right pump model for you. That'll make your investment smart and you- happy!

