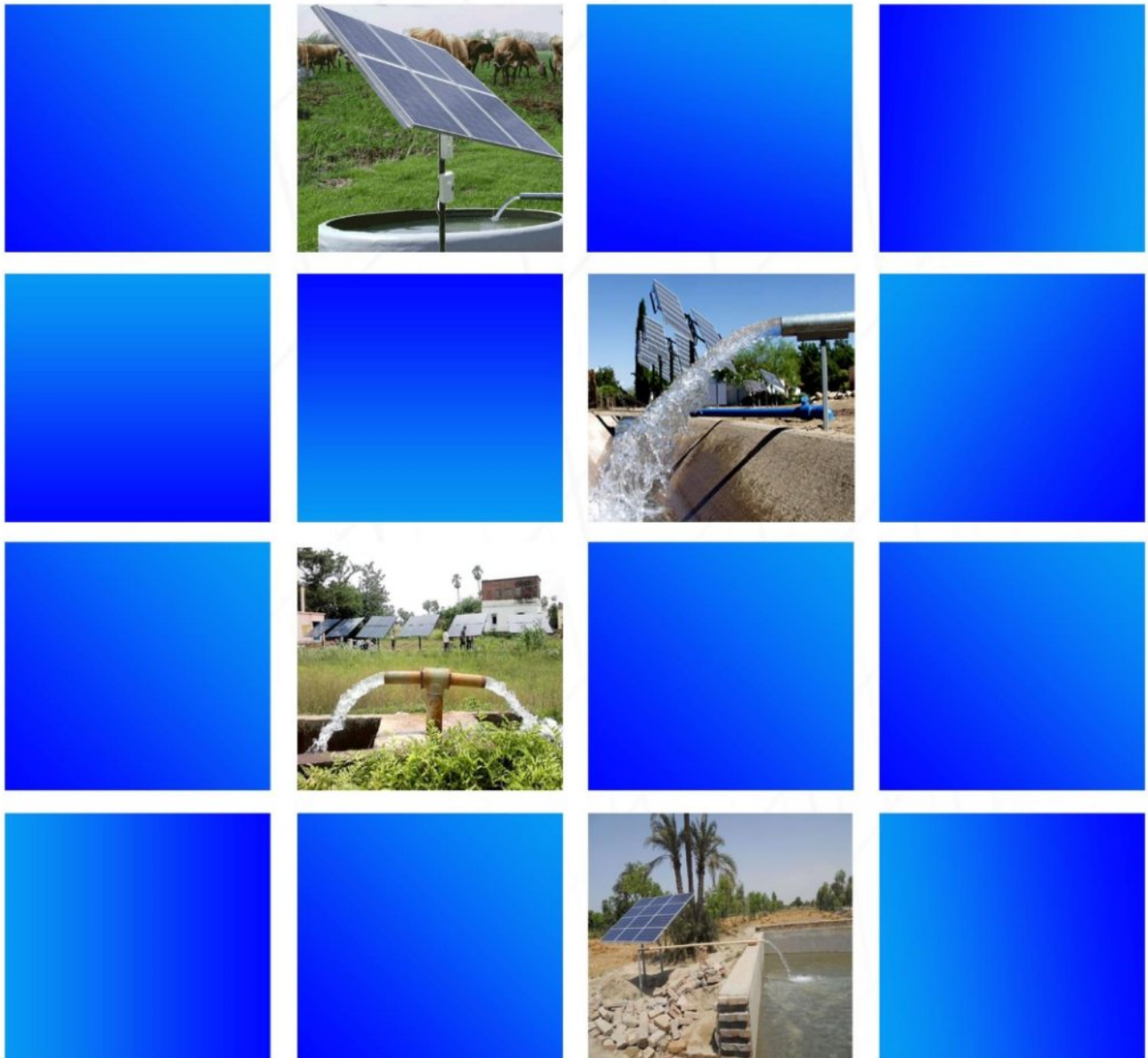


WORLD'S BEST SOLAR PUMPS WITH 40% MORE DISCHARGE





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
- 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
- Easy to operate in remote areas too

How does a Solar Pump work?

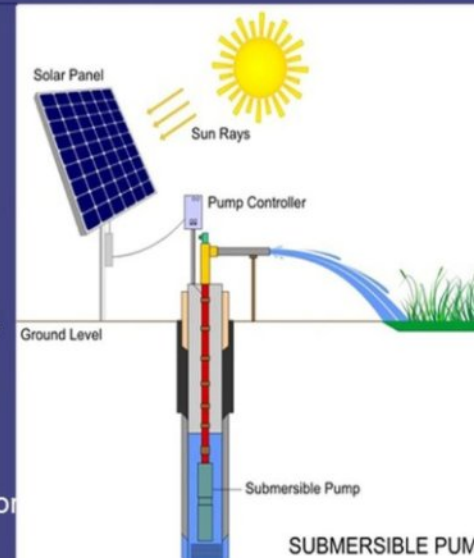
Solar pumps operate using three main components; Solar cells collect the sun's rays and convert them into usable electricity. These cells are usually covered in silicon or another semiconductor material that produces direct current electricity. Wiring moves the electricity from the cells to the pump, 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 distances depth/ height through which water is to be raised in meters or feet
- (3) Total pipeline length (in meter or feet) from pump discharge to water delivery point and pipe diameter (mm)
- (4) If water is entering any drip/ sprinklers 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!



Why Brand Sunkom?

- Sunkom – 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

What does Sunkom Solar Pumping System

- 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

Why Sunkom Solar Pump?

Sunkom Solar pumps have better hydraulic impeller & casing? Diffuser designs and sheet metal stainless steel parts for smooth hydraulic passage; which ensure higher efficiencies in pumps. Sunkom 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 Sunkom solar pump. It draws more current than equivalent Sunkom solar Pump with same water output as Sunkom 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 Sunkom Solar pump. Sunkom product is also more reliable and more durable than others and is built for long life. It is backed by authorized service centers all around the country, where trained technicians handle service quickly and efficiently.

Benefits of Sunkom Solar Pumps:

- More water discharge than other equivalent pumps due to high efficiency pumps and motors
- 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, so spare parts etc can be available for 25 years





Technical Features :

- Start and stops automatically after sunrise and close to sunset
- Can run on both Grid power and Solar PV power
- Dry Run Protection i.e. controller switches off the motor pump set if there is not water, preventing pump blockage
- Protection against Over-voltage, Under-voltage, Short Circuit, Phase imbalance, Cut cable , Lightning strike
- Remote monitoring and control come programming unit optionally available at extra price.
- Anti theft fasteners, which make it impossible for thieves to remove solar panels from structure unless solar panel are broken or steel frame itself is cut
- One of the widest duty range of pumps from 0.5 HP to 325 HP with heads up to 600 meters
- Mounting structure that can with stand wind speeds up to 150 km/hr
- Mounting structure elements made of hot dip galvanized metal with 80 micron thickness for long corrosion free life of 25 years

Technical Specifications of Major Parts:

Solar PV Modules: Conforming to IEC 61215 and IEC 6172- part I & II
Controller: As per IEC 61683
Pump & Motor: As per MNRE specifications of Govt. of India for solar Pumps and as per IS (Indian Standard)

Sunkom Solar Pump Package Range

(Giving detailed list of bill of material that Sunkom Provides)

A	B	C (Solar Pump Kit)	D (Solar Pumping System with Pipe, Cable & Accessories)	E (Solar Pumping System Commissioned)
Solar Pump-Motor Set (A1) & Solar Pumps Motor set with controller (A2)	Solar Pump-Motor Set with PV Panels (B1) or Solar Pump-Motor Set with PV mounting structure (B2)	1. Solar Pump-Motor Set 2. Solar Controller 3. Solar PV Modules with interconnecting Cables 4. PV Mounting Structure with Anti-theft Fasteners & Earthing Kit	1. Solar Pump-Motor Set 2. Solar Controller 3. Solar PV Modules 4. PV Mounting Structure with Anti-theft Fasteners & Earthing Kit 5. Pipe, Cable & all accessories as per MNRE	Solar Pumping System as per Package (D) with free service from site survey to commissioning to training
For Specific enquiries, write an e-mail to info@sunkom4u.com				

Warranty & Performance Guarantee

Warranty against manufacturing defects only	Solar Pump-Motor Set	Solar Controller	Solar Pump Kit	Solar Pump System
	5 years if bought under Nabard - MNRE scheme OR 1 year if bought directly with reduced price			
Performance Guarantee for SPV modules back to back from Shakti & PV manufacturer (as per IEC)				25 years as per IEC



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