



Enriching Lives

SOLAR WATER PUMPING SYSTEM



KIRLOSKAR BROTHERS (THAILAND) LIMITED

A Kirloskar Group Company

OUR GROUP COMPANIES



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Enriching Lives

Kirloskar Solar Water Pumping System

KSS

KIRLOSKAR 4" SOLAR DC SUBMERSIBLE PUMPSET

FEATURES

High Efficiency and Energy-saving Design

Innovative design manufactured at state of art plant, delivers optimum Efficiency with lower energy consumption resulting in, significant cost saving.

Material of Construction

All the parts are Non Corrosive by nature.

Dynamically Balanced Rotating Parts

Minimum vibrations protect components from damages during the operations, consistent performance as concentricity is maintained

Lightweight and Compact Design

Constructed with special grade engineering materials, compact designs for ease of handling and installation.

Flatter Efficiency Curve

Minimal drop in efficiency during entire operating range, resulting in lower operating cost

TECHNICAL SPECIFICATION

Head Range	: Upto 90 meters
Discharge Range	: Upto 50 L/min
Power Ratings	: 0.75 to 3.7 kW (1 to 5 HP)
Type of Cooling	: Water Coole
Insulation	: F Class
Protection	: IP 68

MATERIAL OF CONSTRUCTION

Pump Shaft	: Stainless Steel
Motor Housing	: Stainless Steel
Motor Shaft	: Stainless Steel
Pump Bushes	: NBR
Impeller	: Stainless Steel / Noryl
Diffuser	: Stainless Steel / Noryl
NRV	: Stainless Steel
Suction	: Stainless Steel
Thrust Bearing	: Carbon OR Carbide

APPLICATIONS

- Domestic and community water supply
- Water supplies for high rise building
- Gardening and small farm irrigation
- Construction site
- Ground Water supply to water works





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Kirloskar Solar Water Pumping System

Solarpump.AI Control Panel



SOLAR PUMPING SYSTEM

- Lift Irrigation
- Drinking Water Supply
- Cooling Towers
- Pressure Boosting
- Air Conditioning

CONTROL PANEL SOLARPUMP.AI FEATURES

- Pump Start / Stop through iCloud
- Record - Pump Operational hours
- Record - Energy Generation by solar system
- Water level in the bore well
- Protect the pump from dry running
- Analysis of water table in surrounding area
- Helps to change the crop pattern based on water levels
- Water quality analysis of bore well water
- Helps to understand the quality of water and minerals in water
- Helps to select suitable crops based on quality of water
- Save power generation into Battery and utilize the power for lighting in the night.
- All the data will be stored in iCloud for future analysis

MOTORS FOR SOLAR PUMP SETS

- Up to 2 HP rating: 120 V, 3-phase AC, 50 Hz induction motors as standard, which works 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 works 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





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Kirloskar Solar Water Pumping System

KS6G-1005R

**6" BOREWELL
SUBMERSIBLE PUMPS**

FEATURES

Wide voltage motor designs with 100% copper rotor

Motors are designed with extra overload capacities, more water spaces and engineered with 99.9% Electro Grade Copper performs well in low voltage with minimum discharge drops and suitable for wide voltage applications.

Sand Fighter Designs

Innovative Sand Fighter Designs restricts the entry of sand in motors, protects the pump and motor bushes to perform well in sandy borewells and increase the pumpset life.

Dynamically balanced rotating parts

Minimum vibrations protect components from damages during the operations, consistent performance as concentricity is maintained

Longer and trouble free life

High grade engineering materials like Graded Cast Iron Components, Stainless Steel Shaft, Noryl Impellers, Bronze Bushes, Heavy duty Carbon + SS Thrust Plate, 99.9% Electro Grade Copper Rotor and Winding Wires for longer and trouble free life

High efficiency and energy saving design

Innovative design manufactured at state of art plant, delivers optimum efficiency at lower energy consumption resulting in significant cost savings.

CED-Cathode Electro Deposition Coating

CED is the latest coating technology for corrosion resistance with uniform coating, provides 5 times more protection over conventional painting, resulting in longer life Lesser chances of motor burning as motor did not get overloaded and saving substantial cost from maintenance and breakdown.

Design to Prevent Overloading

Glycol-mixed water Motors filled with specially developed Glycol mixed water to improve the anti-freezing properties of motor and prevent corrosion.

TECHNICAL SPECIFICATION

Head Range	: Upto 276 meters
Capacity	: Upto 1540 L/min
Power Ratings	: 2.2 to 18.5 kW/3 to 25 HP
Voltage Range	: 160 to 240 Volts (Single Phase) : 200 to 440 Volts* (Three Phase)
	*Under ideal condition with suitable cable size
Insulation	: B class
Type of Cooling	: Water Filled
Protection	: IP 68 Sta

MATERIAL OF CONSTRUCTION

Pump Shaft	: Stainless Steel
Motor Housing	: Stainless Steel
Motor Shaft	: Stainless Steel
Pump Bushes	: NBR/LTB
Impeller	: Stainless Steel / Noryl
Diffuser	: Cast Iron / Noryl
NRV	: Cast Iron
Suction	: Cast Iron
Thrust Bearing	: Carbon +SS
Bowl/Stage casing	: Cast Iron
Finished rotor	: Copper

APPLICATIONS

- Irrigation in horticulture & agriculture
- Domestic and community water supply
- Sprinkler and drip irrigation
- Rural water supply
- Ground water supply to water works

