

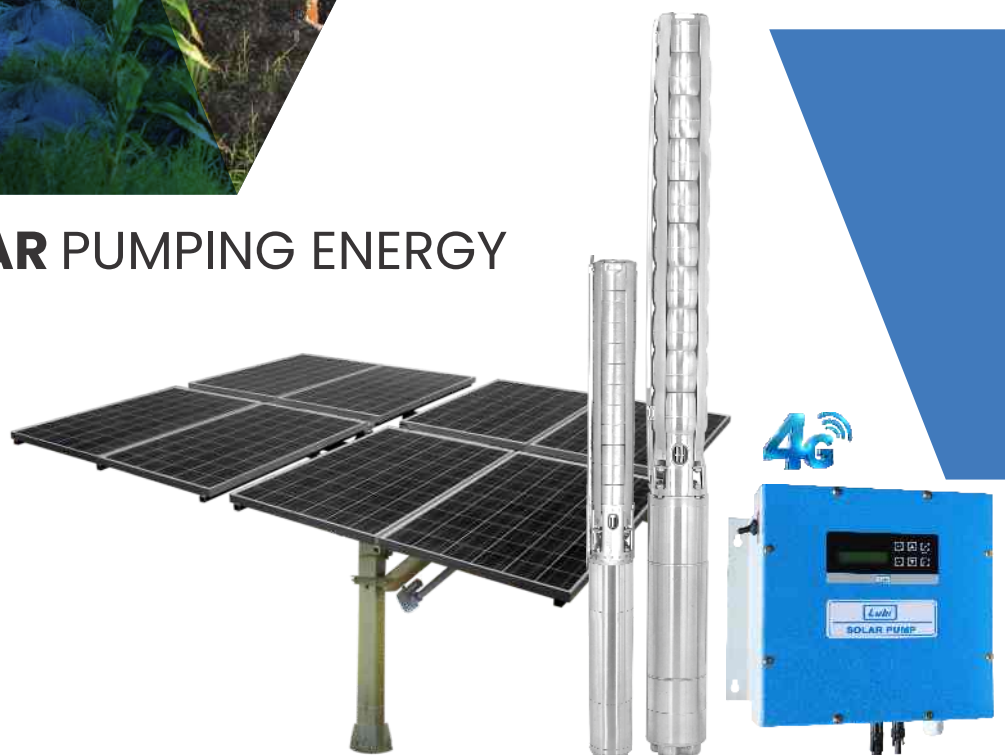
Lubi

LSZ SERIES

AC **SOLAR** STAINLESS STEEL SUBMERSIBLE BORE WELL PUMPS



INFINITE **SOLAR** PUMPING ENERGY





AC Solar SS Submersible Bore well Pumps

Introduction

Existence of human life in rural India depends largely on the availability of clean water to people, livestock and crops. Farmers in rural India can only become prosperous if there is availability of clean water for their farms, homes and livestock. In many parts of India there is a shortage of reliable power for homes and irrigation of fields where Lubi **LSZ** series of Solar Submersible Pumping systems can make a remarkable contribution.

The LSZ Solar Submersible Pumping system offered by Lubi is a state of the art high technology product designed to provide a green and energy efficient solution for a reliable water supply where there is no access of clean water and electricity.

The LSZ Solar Submersible Pumping system comprises of the following equipment.

- ☐ Solar stainless steel submersible bore well pump
- ☐ Solar photovoltaic panels with mounting structure
- ☐ Automatic controller for the solar pump
- ☐ Cables and accessories.

Application

- ☐ Flood irrigation of small fields
- ☐ Drip irrigation for farms
- ☐ Cattle watering
- ☐ Water supply for small villages, schools, hospitals and homes.

Range of Performance

Maximum flow	: 315000 LPD
Maximum head	: 100 metres.
Rating	: 3.0 hp to 10.0 hp (2.2 kW to 7.5 kW)

Features & Benefits

- State-of-the art design.
- Highly energy efficient submersible solar water pump with energy efficient inverter duty motor.
- High efficiency solar photovoltaic panels with a service life of minimum 20 years.
- Robust design Galvanized steel mounting structure for long life.
- High technology automatic controller with dynamic MPPT (Maximum Power Point Tracking) control method.
- The Controller offers complete protection against under and over voltage and dry run protection for the pump.
- Highly efficient controller with a conversion efficiency of 97%.
- The controller is tropicalized to operate satisfactorily with an ambient temperature of up to 50°C.
- Virtually no maintenance cost.
- Environmentally friendly air and noise pollution free solution.
- Material : Stainless Steel (AISI 304, AISI 316) pump construction.
- Simple and easy installation.
- Cost efficient pumping.
- Very strong ROI against diesel powered pumping systems which reduces production costs and carbon foot print
- Large range of pumps to closely match each application.
- Specific demands and optimize efficiency.

Operating Conditions

Ambient temperature	: +50°C
Liquid temperature range	: 0°C to +80°C
Water pH	: 6.5 - 8
Sand content	: 25 g/m ³

Type Keys

LSZ	A030	10	05	3K
Type range	Motor type	Pump type	Nos. of impellers	Total solar panel Watt
LSZ = Solar stainless steel Submersible Borewell pump series	A030 = 3.0 hp (2.20 kW) AC A050 = 5.0 hp (3.70 kW) AC A075 = 7.5 hp (5.50 kW) AC A100 = 10.0 hp (7.50 kW) AC	05 = W5A 09 = W9 10 = W10 15 = W15 17 = W17 30 = W30 46 = W46 60 = W60		3k = 3000 watt solar panels 4.8k = 4800 watt solar panels 7k = 6750 watt solar panels 9k = 9000 watt solar panels

Minimum Cost of Ownership

Very often investment decisions for pumps are based only on the purchase cost of the pump. This initial purchase cost is a fraction of owning and operating a pump over its entire life span. The initial cost for diesel engine driven pumps is just 5% of the total life cycle cost with operation (energy) and maintenance cost contributing to 85% and 10% respectively.

Solar water pumping systems when compared to diesel engine driven pump sets are much higher in the initial purchase cost but over the life cycle of the solar pumping system they provide significant financial savings in terms of operation (energy) and maintenance costs. Typically when solar pumps are compared with diesel engine pumps they offer a breakeven in costs within 4 to 8 years depending on site conditions, installations cost, and model specification. After the breakeven, the solar pumping systems provide significant cost savings to the owners.

Technical Data

Sr. No.	Item Code	HP	Voltage (V)	Stage	Head (m)	Delivery Size (Inch)	Discharge (LPD)	Recommended SPV Power (Wp)	PV Module Configuration (535Wp)
01	LSZA03010053K	3.0	160	5	30	2.5"	1,05,000	3000	6X1
02	LSZA03009153K	3.0	160	15	50	2.0"	63,000	3000	
03	LSZA03009183K	3.0	160	18	70	2.0"	42,000	3000	
04	LSZA03005283K	3.0	160	28	100	1.5"	27,000	3000	
05	LSZA05030054.8K	5.0	260	5	30	3.0"	1,68,000	4800	9X1
06	LSZA05015084.8K	5.0	260	8	50	2.5"	1,00,800	4800	
07	LSZA05010114.8K	5.0	260	11	70	2.5"	67,200	4800	
08	LSZA05009194.8K	5.0	260	19	100	2.0"	43,200	4800	
09	LSZA07546047K	7.5	380	4	30	3.0"	2,36,250	6750	13x1
10	LSZA07530077K	7.5	380	7	50	3.0"	1,41,750	6750	
11	LSZA07515137K	7.5	380	13	70	2.5"	94,500	6750	
12	LSZA07510167K	7.5	380	16	100	2.5"	60,750	6750	
13	LSZA10060049K	10.0	470	4	30	3.0"	3,15,000	9000	17x1
14	LSZA10030089K	10.0	470	8	50	3.0"	1,89,000	9000	
15	LSZA10017119K	10.0	470	11	70	2.5"	1,26,000	9000	
16	LSZA10010179K	10.0	470	17	100	2.5"	81,000	9000	

Note : PV Array Configuration should be suitable to Controller Technical Specification and Motor Voltage Design.

Farming



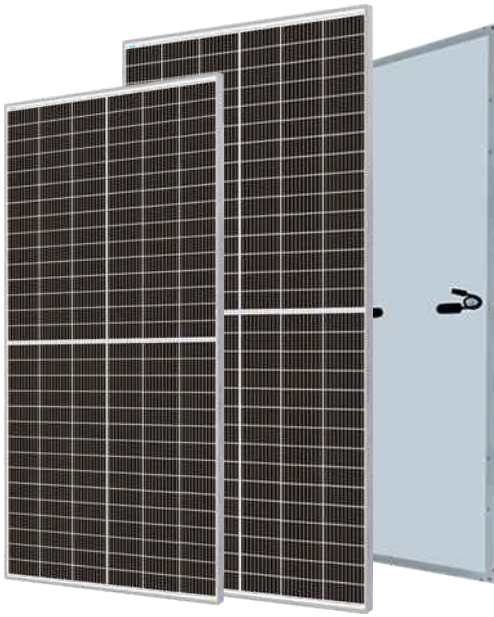
Drinking Water & Sanitation



Drip Irrigation



Solar Module



Fully Automatic
150MW
Manufacturing Line

Other Range of Solar Water Pumps



- AC Submersible Pumps Range : 0.5 HP ~ 20 HP
- AC Surface Pumps Range : 1.0 HP ~ 10.0 HP
- DC Submersible Pumps Range : 1.0 HP ~ 10 HP
- DC Surface Pumps Range : 2.0 HP ~ 10.0 HP



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Product Improvement is a continuous process at 'LUBI'. The data given in this publication is therefore subject to revision.

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ISO 9001



ISO 14001