



# SOLAR WATER PUMP



## LATTEYS SOLAR WATER PUMPS

Our solar pumps are design with latest technology at affordable price so that everyone can enjoy the performance of our products within their reach without risk of unwanted damages and adverse/hostile conditions. Excellent performance have resulted in latteys Solar Pumps making a diacritic/offbeat in the pump industry.



### RANGE

Our Stainless steel solar submersible water pumps are made in the range of 1HP - 50HP and cast iron solar centrifugal monobloc pumps are available in the range of AC solar centrifugal monoblock pump 1HP - 20HP and DC centrifugal monoblock pump 1HP - 10HP.



### BENEFITS OF OUR SOLAR WATER PUMPS

Rugged Construction | Easy Installation | No conventional grid electricity required | Long operating life | Highly reliable and durable | Easy to operate and maintain | Eco friendly | No fuel cost

### WHY LATTEYS SOLAR WATER PUMPS ?

Latteys make available our best quality products with latest technology at reasonable price. So that everyone can enjoy the performance of our products will in their reach.



**Safe Investment:** Because of the High reliability of Solar Modules, the Solar system provide you pollution free energy for long years with low maintenance.



**Money Saving:** Solar panels helps you to save money by reducing your electricity bill. Governments across the world are promoting green energy.



**Environment Friendly:** Green Energy protects our future generation from toxic pollutants.

» **UPLIFTING VALUES** for our valuable Customers...

» **SECURING GROWTH & PROSPERITY** with our people.

» **REACH OUT** to our valuable Customers across needs...

» **MORE THAN FOUR DECADES OF R&D** launches some new SOLAR & NEX-G Pumps...



## Product Range



## SUBMERSIBLE AC SOLAR WATER PUMPS

**Applications:** Field irrigation, supplying portable water for your communities, while drawing water from underground water sources like bor-wells or pumps.

STAINLESS STEEL AC SOLAR SUBMERSIBLE WATER PUMP SET								
Pump Model	H.P	Motor Voltage (3Ph. AC)	Head In Mtr	Delivery size in mm	Array Power IN Wp	LPD	PV Module Used	No. in Series X No. in parallel
TPSLPWSX405/09	1HP	72 V	30	40	1000	20000	400 Wp	3 X 1
TPSLPWSX402/14			50	32	1000	10000	400 Wp	3 X 1
TPSLPWSX409/09	2HP	120V	30	50		63000	500 Wp	4 X 1
TPSLPWSX405/13			50	40	1800	34200	500 Wp	4 X 1
TPSLPWSX403/18			70	32	1800	23400	500 Wp	4 X 1
TPSLPWSX615/05	3HP	160V	30	50/65	3000	105000	500 Wp	6 X 1
TPSLPWSX409/14			50	50	3000	63000	500 Wp	6 X 1
TPSLPWSX405/20			70	40	3000	42000	500 Wp	6 X 1
TPSLPWSX403/26			100	32	3000	27000	500 Wp	6 X 1
TPSLPWSX630/03	5HP	260V	20	80	4800	235000	535 Wp	9 X 1
TPSLPWSX630/04			30	80	4800	168000	535 Wp	9 X 1
TPSLPWSX617/07			50	50/65	4800	100800	535 Wp	9 X 1
TPSLPWSX409/19			70	50	4800	67200	535 Wp	9 X 1
TPSLPWSX409/24			100	50	4800	43200	535 Wp	9 X 1
TPSLPWSX646/04	7.5HP	380V	30	80	7000	245000	525 Wp	13 X 1
TPSLPWSX617/09			50	50/65	7000	147000	525 Wp	13 X 1
TPSLPWSX617/11			70	50/65	7000	98000	525 Wp	13 X 1
TPSLPWSX6409/28			100	50	7000	63000	525 Wp	13 X 1
TPSLPWSX660/04	10HP	420V	30	100	9000	315000	535 Wp	17 X 1
TPSLPWSX630/07			50	80	9000	189000	535 Wp	17 X 1
TPSLPWSX617/12			70	65	9000	126000	535 Wp	17 X 1
TPSLPWSX617/14			100	65	9000	81000	535 Wp	17 X 1

### Specifications for the AC Motors

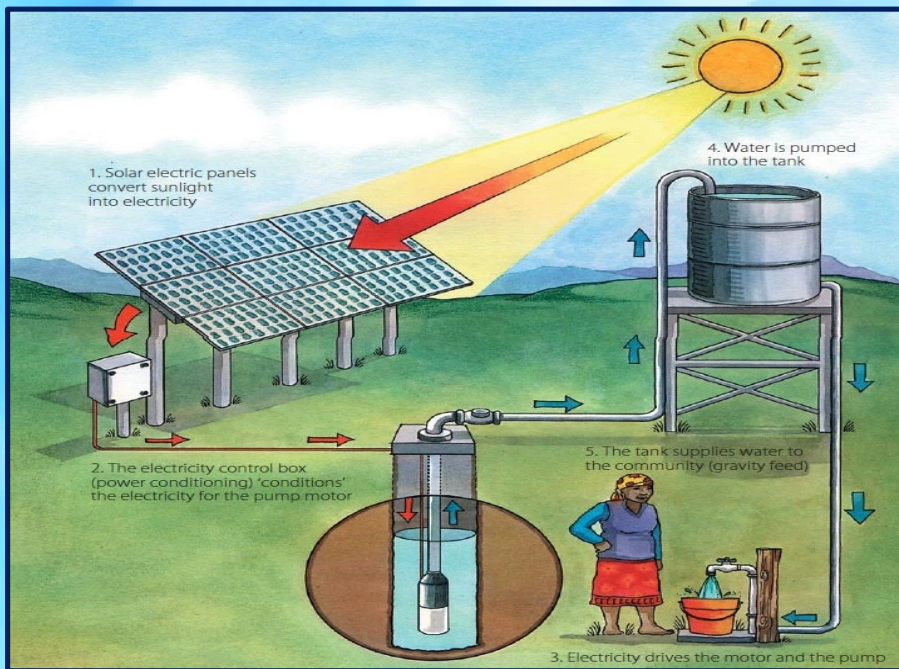
Motor Rating	1 HP	2 HP	3 HP	5 HP	7.5	10
Rated Voltage	72V , 3 Ph	120V, 3 Ph	160V, 3 Ph	260V , 3 Ph	380V, 3 Ph	420V ,3 Ph
Rated Current	8.5	11.5	12.5	13	13	15
Insulation Class	B	B	B	B	B	B
Motor OD	96 mm	96 mm	96 /146mm	96/146 mm	146 mm	146 mm
Frequency	0-50 Hz	0-50 Hz	0-50 Hz	0-50 Hz	0-50 Hz	0-50 Hz
RPM	2850	2850	2850	2850	2850	2850

### SUMMARY OF AC SOLAR PUMPSET

HP	1	2	3	5	7.5	10	15	20	25	30	40	50
MAX. HEAD RANGE (MTR)	30-70	30-120	30-150	30-200	30-250	30-300	30-210	30-252	30-315	30-280	30-340	30-380
MAX. DISCHARGE RANGE (LPM)	60-20	160-20	270-30	450-40	650-50	900-60	1200-160	1500-160	1800-160	2800-250	2700-250	3200-400

### SOLAR PUMP SYSTEM

Technology is increasing day by day and automation Technology is challenging the manual operation, which can be applied to the Agricultural Field also. Before this the farmers manually used to water the fields power is taken from household power and every time human involvement is needed whenever water needs to be provided. Now there is an automatic system and the power required for the operation of the pump will be taken from the solar System, whenever water is needed for the field, automatically pump will be turned on and when water level sufficient the pump will be turned off automatically



## SUBMERSIBLE DC SOLAR WATER PUMPS

**Application:** Flood irrigation of small fields, Drip irrigation for farms, Cattle watering, Water supply to small villages, schools hospitals and homes.

STAINLESS STEEL DC SOLAR SUBMERSIBLE WATER PUMP SET								
Pump Model	H.P	Motor Voltage (3Ph. AC)	Head In Mtr	Delivery size in mm	Array Power IN Wp	LPD	PV module Used	No in Series X No in Paraller
TPSDCLPWSX405/08	1HP	72 V	30	40	1000	20000	400Wp	3 X 1
TPSDCLPWSX402/12			60	32	1000	10000	400Wp	3 X 1
TPSDCLPWSX402/18			90	32	1000	5000	400Wp	3 X 1
TPSDCLPWSX409/06	2Hp	120V	30	50	1800	70200	500Wp	4 X 1
TPSDCLPWSX405/13			50	40	1800	42000	500Wp	4 X 1
TPSDCLPWSX403/18			70	32	1800	30000	500Wp	4 X 1
TPSDCLPWSX617/03	3Hp	160V	30	50/65	3000	117000	500Wp	6 X 1
TPSDCLPWSX409/09			50	50	3000	69000	500Wp	6 X 1
TPSDCLPWSX405/18			70	40	3000	45000	500Wp	6 X 1
TPSDCLPWSX405/20			100	40	3000	31500	500Wp	6 X 1
TPSDCLPSWSX630/02	5 HP	260V	20	80	4800	264000	535Wp	9 X 1
TPSDCLPSWSX630/03			30	80	4800	187200	535Wp	9 X 1
TPSDCLPWSX617/05			50	50/65	4800	110400	535Wp	9 X 1
TPSDCLPWSX409/12			70	50	4800	72000	535Wp	9 X 1
TPSDCLPWSX409/19			100	50	4800	50400	535Wp	9 X 1
TPSDCLPWSX660/02	7.5 HP	380V	20	100	7000	343000	525Wp	13 X 1
TPSDCLPWSX646/03			30	80	7000	273000	525Wp	13 X 1
TPSDCLPWSX630/05			50	80	7000	110400	525Wp	13 X 1
TPSDCLPWSX617/09			70	50/65	7000	105000	525Wp	13 X 1
TPSDCLPWSX409/20			100	50	7000	73500	525Wp	13 X 1
TPSDCLPWSX660/02	10 HP	420V	20	100	9000	441000	535Wp	17 X 1
TPSDCLPWSX660/03			30	100	9000	351000	535Wp	17 X 1
TPSDCLPWSX630/06			50	80	9000	207000	535Wp	17 X 1
TPSDCLPWSX617/10			70	65	9000	135000	535Wp	17 X 1
TPSDCLPWSX617/12			100	65	9000	94500	535Wp	17 X 1

## SPECIFICATIONS FOR THE DC MOTORS

### Motor Details : DC SUBMERSIBLE MOTORS

Motor Rating	1 HP	2 HP	3 HP	5 HP	7.5 HP	10 HP
Rated Voltage	72V , 3 Ph	120V, 3 Ph	160V, 3 Ph	260V , 3 Ph	380V,3 Ph	420V ,3 Ph
Rated Current	8.5	11.5	12.5	13	13	15
Insulation Class	B	B	B	B	B	B
Motor OD	96 mm	96 mm	96 mm	96 mm	96 mm	96 mm
Frequency	0-110 Hz	0-110 Hz	0-110 Hz	0-110 Hz	0-110 Hz	0-110 Hz
RPM	3300	3300	3300	3300	3300	3300

## SUMMARY OF DC SOLAR PUMPSET

HP	1	2	3	5	7.5	10	15	20	25	30
MAX. HEAD RANGE (MTR)	30-90	30-150	30-200	30-250	30-300	30-350	30-250	30-300	30-360	30-320
MAX. DISCHARGERANGE (LPM)	70-28	170-25	300-35	500-50	700-60	1000-70	1350-175	1700-180	2000-190	2500-300

**Range of Performance:** Maximum flow 264m<sup>3</sup>/hr | Maximum head: 600 | Rating: 1HP - 30HP.

### Feature and Benefits

- Highly energy efficient submersible solar water pump with energy efficient inverter duty motor.
- 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 98%.
- The controller is tropicalized to operate satisfactorily with an ambient temperature off upto 50 degree Celsius.
- Virtually no maintenance cost.
- Environmentally friendly air and noise pollution free station.
- Material stainless steel ( AISI 304, AISI 316 ) pump construction.
- Brushless DC ( PMSM ) motors, design for solar, with over 90% efficiency.
- Simple and easy installation.
- Cost efficient pumping.
- Very strong ROI against diesel powered pumping systems which reduces production costs and carbon footprint.
- Large range of pumps to closely match each application specific demands and optimize.

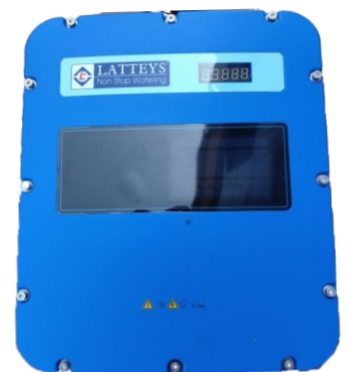
## VARIABLE FREQUENCY DRIVES (VFD)

### Solar AC/DC Controller Specification

Model: LATTEYS AC/DC Controller

Controller Rating HP	1	2	3	5	7.5	10
AC Input Voltage	230 V 1Ph	230 V 1Ph	230 V 1Ph	260V 3Ph	380V 3Ph	420V 3Ph
Max Input PV Voltage (Voc)	400	400	450	470	900	900
Recommended DC Input Range (Vmp)	200-400	200-400	200-400	300-750	300-750	300-750
Output Voltage Vac	72V	120V	160V	260V	380V	420V
Output Current	10	12	13	13	15	15
Output Frequency	50 Hz					
Operating temp	-5 °C to 50 °C					
Enclosure IP Protection	IP54/IP65					
ON/Off Switch	Available					
Communication Port for RMU	RS-485					
Protection	Dry Run, Short Circuit, Open Phase in Input and Output side, High Voltage, Low Voltage And Overload, Over Temp.					

**PRODUCT  
IMAGE**



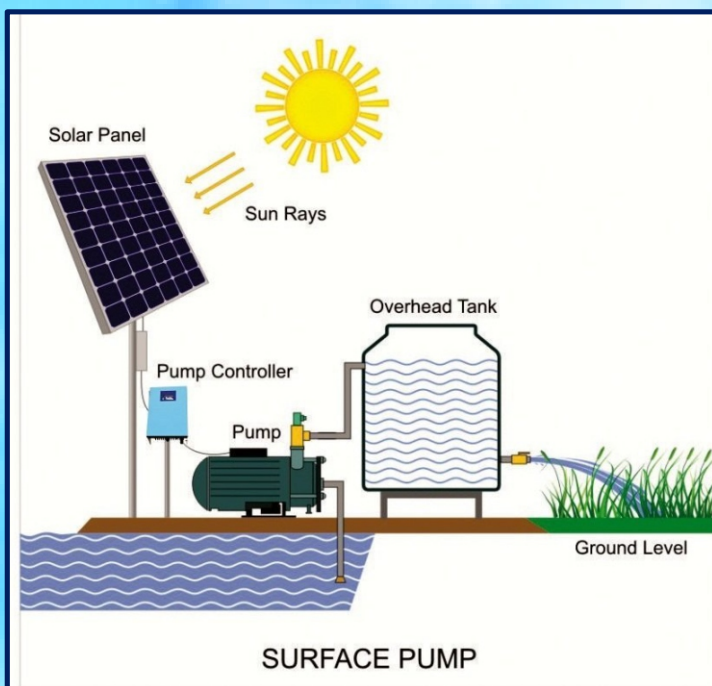
## DC SOLAR SURFACE PUMP

Pump Model	H.P	Motor Voltage	Head In Mtr	Array Power IN Wp	SUCTION X DELIVERY IN mm	LPD	PV module Used	No in Series X No in Paraller
LCMDC10-1200	1HP	50/72V	10	1000	50X50	99000	500Wp	2 x 1
LCMDC10-1800	2Hp	120V	10	1800	80X80	198000	500Wp	4 X 1
LCMDC20-1800			20	1800	50X50	110000	500Wp	4 X 1
LCMDC10- 2700	3Hp	160V	10	3000	80X80	297000	540Wp	5 X 1
LCMDC20 -2700			20	3000	65X50	148500	540Wp	5 X 1
LCMDC10-4800	5Hp	260V	10	4800	80 X 80	528000	535Wp	9 X 1
LCMDC20-4800			20	4800	80 X 65	264000	535Wp	9 X 1
LCMDC10-6750	7.5 HP	380V	10	6750	100 X 100	742500	525 Wp	13 X 1
LCMDC20-6750			20	6750	80 X 80	371250	525 Wp	13 X 1
LCMDC30-6750			30	6750	80 X 65	263250	525 Wp	13 X 1
LCMDC10-9000	10 HP	420V	10	9000	100 X 100	990000	535 Wp	17 X 1
LCMDC20-9000			20	9000	80 X 80	495000	535 Wp	17 X 1
LCMDC30-9000			30	9000	80 X 65	342000	535 Wp	17 X 1





AC SOLAR SURFACE PUMP							
Pump Model	H.P	Motor Voltage (3Ph. AC)	Head In Mtr	Array Power IN Wp	LPD	PV module Used	No in Series X No in Paraller
TPSLCM101	1 HP	72V	10	1000	89100	400 Wp	3 x 1
TPS LCM 202	2Hp	120V	10	1800	178200	500Wp	4 X 1
TPS LCM 192			20	1800	88200	500Wp	4 X 1
TPS LCMB 300	3Hp	160V	10	2700	267300	540Wp	5 X 1
TPS LCMB 3252			20	2700	132300	540Wp	5 X 1
TPS LCMB 544	5Hp	260V	10	4800	475200	535Wp	9 X 1
TPS LCMB 533			20	4800	235200	535Wp	9 X 1
TPS LCMB 744	7.5Hp	380V	10	7000	693000	525Wp	13 X 1
TPS LCMB 733			20	7000	343000	525Wp	13 X 1
TPS LCMB 1044	10Hp	420V	10	9000	891000	535Wp	17 X 1
TPS LCMB 1033			20	9000	441000	535Wp	17 X 1



**SOLAR AC/DC SUFACE PUMP**

### AC SOLAR OPEN WELL PUMP

Pump Model	H.P	Motor Voltage (3Ph. AC)	Head In Mtr	SUCTION X DELIVERY IN mm	LPD	Array Power IN Wp	PV module Used	No in Series X No in Paraller
TPS LHOW 325	3Hp	160V	10	80 X 80	297000	3000	500Wp	6 X 1
TPS LHOW 3252			20	65 X 50	147000	3000	500Wp	6 X 1
TPS LHOW 53	5Hp	260V	10	80 X 80	475200	4800	535Wp	9 X 1
TPS LHOW 5325			20	80 X 65	235200	4800	535Wp	9 X 1
TPS LHOW 73	7.5Hp	380V	10	80 X 80	693000	7000	525Wp	13 X 1
TPS LHOW 725			20	80 X 65	343000	7000	525Wp	13 X 1
TPS LHOW 1044	10Hp	420V	10	100 X 100	891000	9000	535Wp	17 X 1
TPS LHOW 1033			20	80 X 80	441000	9000	535Wp	17 X 1



**SOLAR AC OPENWELL PUMP**

# LATTEYS SOLAR DC SELFPRIMING PUMPSET

MODEL NAME	KW	HP	DUTY. HEAD (mtr)	DISCHARGE (LPM)	SHUTOFF HEAD (mtr)
SURYA	0.37	0.5	15	35 LPM	25
SUNRAY	0.75	1	30	60 LPM	45



**SURYA ( SOLAR DC )  
SELFPRIMING MONOBLOCK PUMP**

**Kw/Hp - 0.37/0.5**  
**Stage - 1**  
**Phase - DC**  
**power -500(WP)**  
**Voltage - 50(V)**  
**Speed -3300 (RPM)**  
**Suction - 25(mm)**  
**Delivery - 25(mm)**  
**Head - 15(m)**  
**Discharge - 35 (lpm)**  
**Head Range - 10-18 (m)**  
**Max Head - 25(m)**



**SUNRAY ( SOLAR DC )  
SELFPRIMING MONOBLOCK PUMP**

**Kw/Hp - 0.75/1**  
**Stage - 1**  
**Phase - DC**  
**power -900(WP)**  
**Voltage - 72(V)**  
**Speed -3300 (RPM)**  
**Suction - 25(mm)**  
**Delivery - 25(mm)**  
**Head - 30(m)**  
**Discharge - 60 (lpm)**  
**Head Range - 20-35 (m)**  
**Max Head - 45(m)**

## ★ LATTEYS SOLAR FEATURES & BENIFITS

- ➔ RELIABLE WATER SUPPLY
- ➔ COST EFFICIENT
- ➔ MAINTENANCE FREE & EASY INSTALLATION
- ➔ INBUILT MPPT FOR MAX POWER INPUT
- ➔ START/SHUT & REMOVE/START AUTOMATIC (WEB/SMS)
- ➔ REMOTE START/SHUT (THROUGH WEB/SMS)
- ➔ DRY RUNNING OVER/UNDER VOLTAGE PROTECTIONS
- ➔ PV REVERSE POLARITY PROTECTION
- ➔ REMOTE MONITORING AND DATA LOGGING
- ➔ DC/AC OPERATION (FOR NIGHT OPERATION)



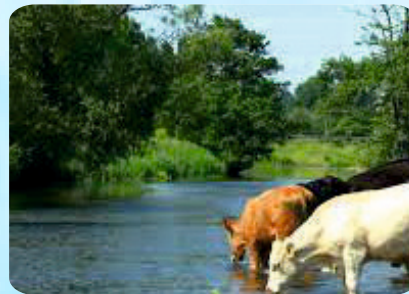
AGRICULTURE



DOMESTIC



DRINKING APPLICATION



LIVESTOCK WATERING



URBAN WATER SUPPLY

## LATTEYS INDUSTRIES LIMITED

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