



PUMPS | MOTORS



Miles to go...

CREATE **ENERGY** by
SAVING **ENERGY**



for more you can scan here



LATTEYS INDUSTRIES LIMITED

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LATTEYS SOLAR WATER PUMPS

Our Solar Pumps are designed 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 available in the range of **1HP~10HP** & **CAST IRON SOLAR CENTRIFUGAL MONOBLOCK PUMPS** are

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 PUMPS?

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



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



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



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

» **UPLIFTING VALUES** for our valuable Customers...
» **REACH OUT** to our valuable Customers across needs...
» **SECURING GROWTH & PROSPERITY** with our people.
» **MORE THAN FOUR DECADES OF R&D** launches some new SOLAR & NEX-G Pumps...



Product Range





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MONOBLOCK SOLAR WATER PUMPS

Applications:

Field irrigation, Supplying potable water for your communities, While drawing water from underground water sources like Bore-Wells or Sumps.



CAST IRON SOLAR CENTRIFUGAL MONOBLOCK PUMP

Pump Motor			
Model	TPS-LCM 101	TPS-LCM 202	TPS-LCM 303
HP	1	2	3
Type	CENTRIFUGAL MONOBLOCK	CENTRIFUGAL MONOBLOCK	CENTRIFUGAL MONOBLOCK
Motor	AC Induction Motor	AC Induction Motor	AC Induction Motor
Impeller	C.I.	C.I.	C.I.
Power (watt)	900	2240	3000
Max flow (M3/H)	12.1	15.2	17.2
Max Head (M)	15	14.5	15
Outlet (inch)	2' x 2'	3' x 3'	3' x 3'
Motor Speed (RPM)	1400-2850	1400-2850	1400-2850
Efficiency	64%	62%	60%
Cooling	TEFC	TEFC	TEFC
CONTROLLER			
Type	MPPT	MPPT	MPPT
IP Class	IP54	IP54	IP54
Operating Frequency	20 TO 50 HZ	20 TO 50 HZ	20 TO 50 HZ
Voltage Range (volt)	45 Vdc	45 Vdc	45 Vdc
Ambient Temperature (deg Celsius)	(-10 to 50)	(-10 to 50)	(-10 to 50)
Data logger	Optional	Optional	Optional
Remote Monitoring system	Optional	Optional	Optional
Protection	Dry run, overvoltage, overcurrent underload, over load, Short ckt etc.	Dry run, overvoltage, overcurrent underload, over load, Short ckt etc.	Dry run, overvoltage, overcurrent underload, over load, Short ckt etc.

Product Range





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SUBMERSIBLE SOLAR WATER PUMPS

Applications: Field irrigation, Supplying potable water for your communities, while drawing water from underground water sources like bore-wells or sumps.

STAINLESS STEEL AC SOLAR SUBMERSIBLE WATER PUMP SET

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
LPWSX405/9	1HP	110V	30	1000	20000	250Wp	4 X 1
LPWSX403/13			50	1000	10000	250Wp	4 X 1
LPWSX409/9	2HP	160V	30	1800	57600	300Wp	6 X 1
LPWSX405/13			50	1800	34200	300Wp	6 X 1
LPWSX403/18			70	1800	23400	300Wp	6 X 1
LPWSX617/5	3HP	230V	30	3000	96000	300Wp	10 X 1
LPWSX408/14			50	3000	57000	300Wp	10 X 1
LPWSX405/25			70	3000	39000	300Wp	10 X 1
LPWSX405/25			100	3000	25500	300Wp	10 X 1
LPSWSX630/4	5HP	380V	20	4800	235200	300Wp	16 X 1
LPWSX617/5			30	4800	153600	300Wp	16 X 1
LPWSX617/7			50	4800	91200	300Wp	16 X 1
LPWSX408/25			70	4800	62400	300Wp	16 X 1
LPWSX408/28			100	4800	40800	300Wp	16 X 1
LPSWSX630/6	7.5HP	320V	30	7000	245000	250Wp	14 X 2
LPWSX617/9			50	7000	147000	250Wp	14 X 2
LPWSX617/9			70	7000	98000	250Wp	14 X 2
LPWSX617/14			100	7000	63000	250Wp	14 X 2
LPSWSX630/7	10HP	380V	50	9000	189000	300Wp	15 X 2
LPWSX617/12			70	9000	126000	300Wp	15 X 2
LPWSX617/14			100	9000	81000	300Wp	15 X 2



Specifications for the AC Motors

Motor Rating	1 HP	2 HP	3 HP	5 HP	7.5	10
Rated Voltage	110 V, 3 Ph	160 V, 3 Ph	230 V, 3 Ph	380 V, 3 Ph	320 V, 3 Ph	380 V, 3 Ph
Rated Current	8.5	9	10	10	16	18
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

Product Range



VARIABLE FREQUENCY DRIVES (VED)

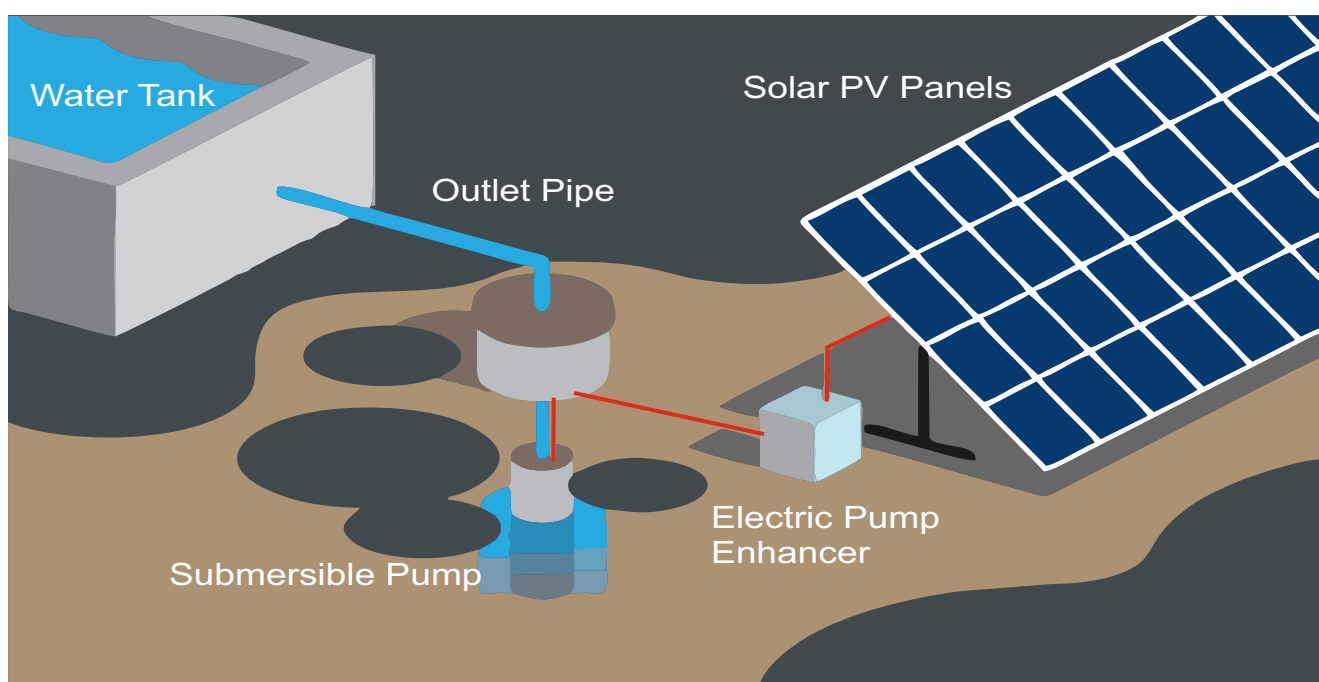
Solar AC Pump Set Controller Specification

Model: LATTEYS AC MOTOR

Controller Rating HP	1	2	3	5	7.5	10
AC Input Voltage	230 V 1Ph	230 V 1Ph	230 V 1Ph	380V 3Ph	380V 3Ph	380V 3Ph
Max Input PV Voltage (Voc)	400	400	450	800	800	800
Recommended DC Input Range (Vmp)	200-400	200-400	200-400	300-750	300-750	300-750
Output Voltage Vac	110	160	230	380	320	380
Output Current	8.5	10	9.6	9.6	16	18
Output Frequency	50 Hz					
Operating temp	-5 °C to 50 °C					
Enclosure IP Protection	IP54					
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.					

SOLAR PUPM SYST

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

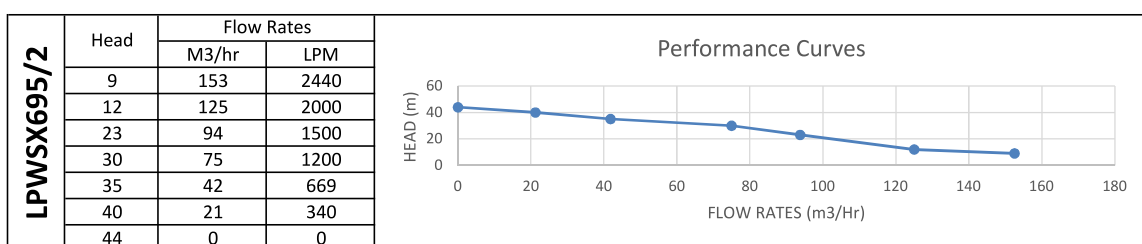
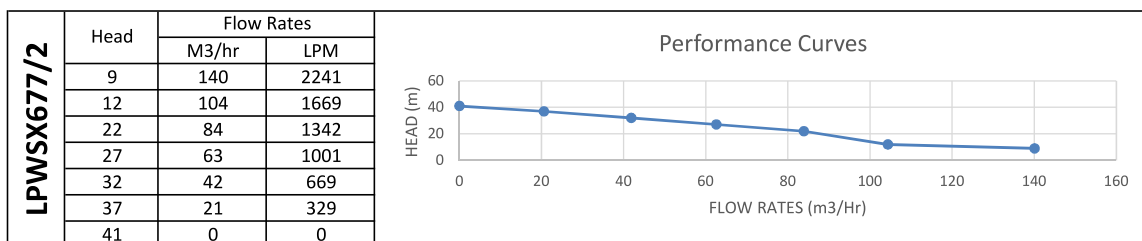
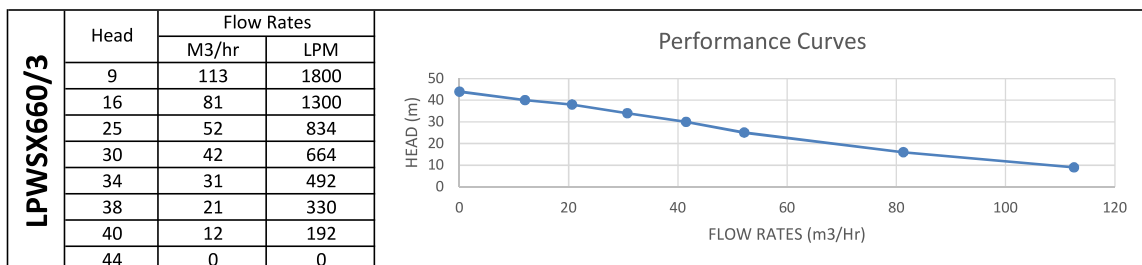
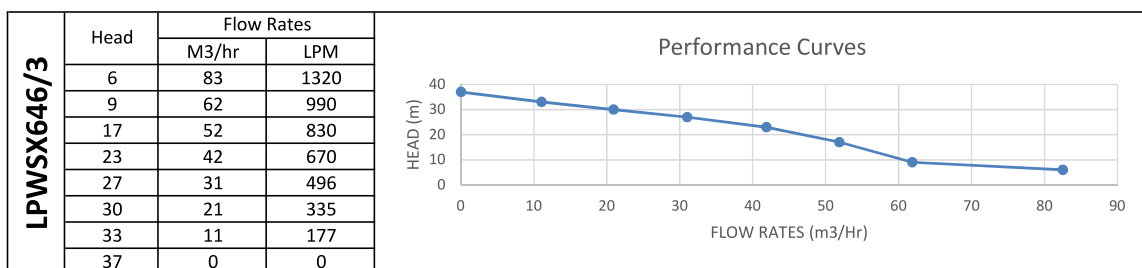
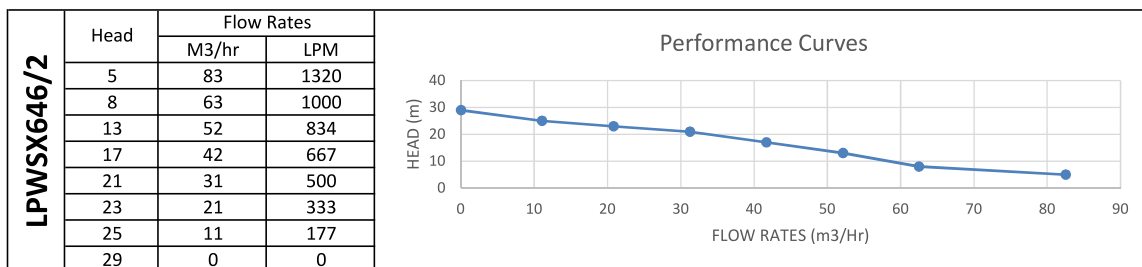
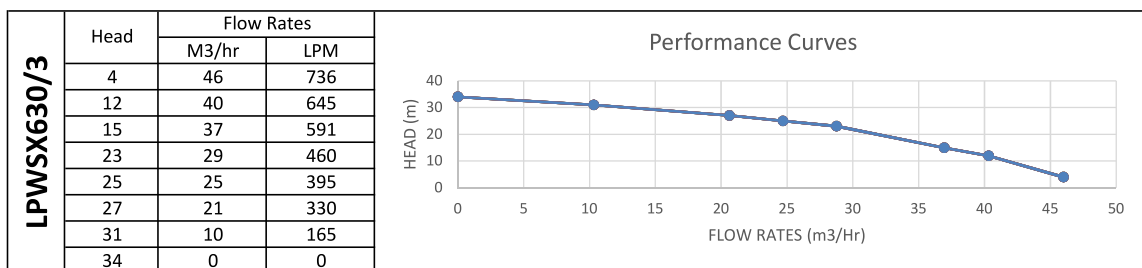




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TECHNICAL DATA & PERFORMANCE





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SOLAR DC PUMP SET DET

APPLICATION

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

RANGE OF PERFORMANCE

Maximum flow: 264 m³/hr. | Maximum head :350 mtr | Rating: 1 HP to 5 HP.

FEATURES & 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 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

Brushless DC (PMSM) motors, designed for solar, with over 90% efficiency

Simple and easy installation

Cost efficient pumping

PERMANENT MAGNET DC BRUSHLESS SUBMERSIBLE PU

Pump Model	H.P	Motor Voltage	Head In Mtr	Array Power IN Wp	LPD	PV module Used	No in Series X No in Paraller
LPWDC405/8	1HP	110V	30	1000	20000	250Wp	4 X 1
LPWDC403/12			60	1000	10000	250Wp	4 X 1
LPWDC409/9	2Hp	160V	30	1800	63000	300Wp	6 X 1
LPWDC405/13			50	1800	41400	300Wp	6 X 1
LPWDC403/18			70	1800	27000	300Wp	6 X 1
LPWDC617/5	3Hp	230V	30	3000	105000	300Wp	10 X 1
LPWDC409/14			50	3000	69000	300Wp	10 X 1
LPWDC409/16			70	3000	45000	300Wp	10 X 1
LPWDC405/24			100	3000	31500	300Wp	10 X 1
LPSWDC630/4	5Hp	380V	20	4800	264000	300Wp	16 X 1
LPWDC617/5			30	4800	182400	300Wp	16 X 1
LPWDC617/7			50	4800	110400	300Wp	16 X 1
LPWDC409/18			70	4800	72000	300Wp	16 X 1
LPWDC409/22			100	4800	50400	300Wp	16 X 1



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SPECIFICATIONS FOR THE DC MOTORS

Motor Details : Permanent Magnet Synchronous Motors (PMSM)

Motor Rating	1 HP	2 HP	3 HP	5 HP
Rated Voltage	110 V, 3 Ph	160 V, 3 Ph	230 V, 3 Ph	380 V, 3 Ph
Rated Current	7	8.5	9	10
Insulation Class	B	B	B	B
Motor OD	96 mm	96 mm	96 mm	96 mm
Frequency	0-110 Hz	0-110 Hz	0-110 Hz	0-110 Hz
RPM	3300	3300	3300	3300

VARIABLE FREQUENCY DRIVES (VED)

Solar DC Pump Set Controller Specification

Model: LATTEYS PMDC

Controller Rating HP	1	2	3	5
AC Input Voltage	230 V 1Ph	230 V 1Ph	230 V 1Ph	380V 3Ph
Max Input PV Voltage (Voc)	400	400	450	800
Recommended DC Input Range (Vmp)	200-400	200-400	200-400	300-750
Output Voltage Vac	110	160	230	380
Output Current	7	8.5	9	10
Output Frequency	110 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.			





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