Moving the sun light to the world



Solar pumps

VS-WP-4

In areas where electricity supply is inaccessible or unreliable, conventional approaches to obtaing water overwhelm the lifestyle of local inhabitants, such as diesel oil pumps, wind water pumps, hydraulic pumps, and manual lifting.

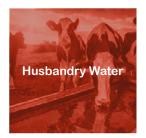
Nonetheless, with a soaring development of modem science and technology, people canve for water in larger quantity and higher quality. Solar pumping systems, take into account environmental protection as well as its reliability, emerge as the times requiere. The system is of zero carbon emission and costs less, installs easier, maintains scarcer compared with multiple pumping systems. It is safe to say that solar pumping systems are the first choice to cover the issue of water-shortage.

Applications









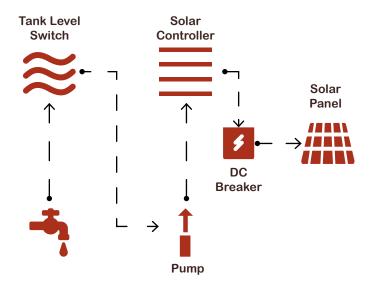


Features

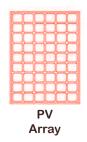
- Fuel Free.
- Higher rate of return compared with that of diesel oil pumps.
- Long lifetime approved by international market.
- Aplicable to standard Triple-phase Asynchronous Motor System.
- Easy to install.

- Covening a wide range of wattges.
- Applicable to electricity-short areas
- Being mobile.
- Compatibile to all kinds of water pumps and most types of solar panels.
- Being designed in integration, ensuring its reliability and relatively low cost

System Components



The Solar Pumping System has 3 key components:



Composed of a number of solar modules in parallel.

It absorbs sunlight radiation energy and converts into electrical power.



The Solar Controler adjusts and converts the solar pumping system.

It maximizes the power out put and adjusts the output frecuency according to sunlight intensity.



The AC Pump pumps water from water sources into pool or irrigation system.



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1 X Water pump 0.55Kw / 0.75HP

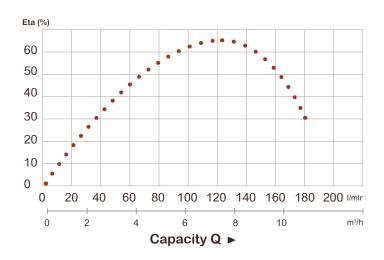
Operating Conditions

Maximum fluid temperature up to + 35 °C

Maximum sand content: 0.25%

Maximum immersion: 80m

Minimum well diameter: 3"



Motor & Pump

· Rewindable motor or full obturated screen motor

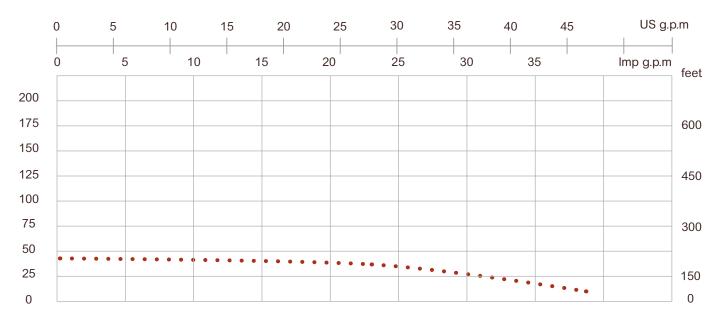
• Three-phase: 380V - 415V / 50Hz

Single-phase: 220V - 240V / 50Hz

Pumps are designed by casing stressed



KW	HP	Q	m³/h	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8
			l/min	0	20	40	60	80	100	120	140	160	180
0.55	0.75			32	30	28	26	25	23	21	18	13	8





Solar pumps

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3 X 260W Solar Panel

Dimensions	1640 x 992 x 40 mm		
Cell Type	156 x 156 mm		
Number of Cells	72 (6 x 12)		
Maximum Power (WP)	260 W		
Open Circuit Voltage (Voc)	36.8 V		
Short Circuit Current (Isc)	8.81 A		
Maximum Power Voltge	31.15 V		
Maximum Power Current	8.19 A		
Maximum Series Fuse	15 A		
Number of Diodes	3		
Cable Type & Lenght	4 mm² 90 cm		
Standard Test Conditions	1000 W / M ² 25C, AM 1.5		





1 X 0.75Kw Controller

- · Soft start prevents effect of water hammer
- Led screen indicates system status and parameters in real time
- · Easy installation without extra maintenance
- Built-in function of system diagnostics and protection
- 99% accurate Max Power Tracking technology to maximize power output from solar modules
- High flow output
- Both DC and AD power input available
- Remote monitoring system

Ambient Temperature Range	-20°C -60°C >45°C
Cooling Method	Fan Cooling
Ambient Humidity	≤95%RH
Dimensions (mm)	151.7x101x126.8
Gross Weight (kg)	1.4
Standard Warranty	12 month

Max Amps RMS (A)	8.2
Power & VA Capability	2.0 KVA
Output Power Rated	0.75 KW
Output Voltage rated	220/230/240V AC
Max Amps RMS (A)	4.5
Output Frequency	0-50Hz / 60Hz

Max Input Voltage (V)	450
Min Input Voltage at mmp (V)	180
Recomended Voltage	280-360 VDC
Max Amps Input (A)	4.3
Recomended Power at mpp (KW)	1.2
Input Voltage	220/230/240V