Bhagwat
Energy Pvt. Ltd.

Solar Water Pumping Systems

Solar Water Pumping Systems - *The ideal water pumping solution when access to 'grid' power is not readily available.*

The solar electric water pumping system:

- Includes the surface or submersible pump, solar panels, electronic controls, mounting hardware
- Is easy to install, run and maintain & does not make any noise or cause any pollution
- Is available in surface & submersible models

RANGE & SPECIFICATIONS

- **Surface Water Pumps:** The surface water pumps are *DC powered* and operate off the panels directly , via a charge controller.
- **Submersible Water Pumps:** The submersible water pumps are *AC powered*. These pumps operate off a specially built 'inverter' that is fed by the solar panels.

NO.	DESCRIPTION	1	2	3	4	5
		SURFACE		SUBMERSIBLE		
1.	MODEL	SW 900	SW 1800	DW 900	DW 1200	DW 1680
2.	PUMP TYPE	DC SUR .	DC SUR .	AC SUB.	AC SUB.	AC SUB.
3.	MOTOR HP	1.1	2.0	0.75	0.75	0.75
4.	MAX SUCTION HEAD (m)	7.0	7.0	--	--	–
5.	MAX. TOTAL DYNAMIC HEAD (m)	15.0	15.0	70.0	70.0	70.0
6.	PV ARRAY CAPA CITY (Wp)	900	1800	900	1200	1680
7.	SHADE FREE AREA REQRD. (sq.m)	30.0	60.0	30.0	40.0	60.0
8.	WATER OUTPUT (kl/day) @ HEAD (m)	70 @ 10	140 @ 10	25 @ 30 8 @ 70	33 @ 30 8 @ 70	42 @ 30 19 @ 70

Note: *Water output figures are on a clear sunny day with 3 times manual tracking of SPV panels and solar radiation of 5.5 kwh/sq.m/day. Hot dipped galvanized structure is supplied with the system for installation of solar array*

APPLICATIONS

- For agriculture and related applications such as horticulture, animal husbandry, poultry farming , high value crops, orchards, fish culture, salt farming, drinking water etc.
- The systems are well suited for drip, sprinkler or micro irrigation techniques
- The solar panel array may also be used for ***battery charging and lighting*** when water is not required.

01/2006 Specifications subject to change without notice

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