



Since 1969  
**Unnati**  
SUBMERSIBLE PUMP

# ROBUST AND RELIABLE SYSTEM TO FULFILL YOUR WATER NEED

SOLAR PUMP MAXIMISE WATER OUTPUT  
WITH HASSLE FREE TECHNOLOGY



TOGETHER WE CAN DO IT  
TOGETHER WE HAVE  
ALWAYS DONE IT

# COMPLETE LINE OF SOLAR PUMPS

At Unnati Pumps, our primary objective is to deliver the best solution to our clients based upon their customized needs. Through a large collection of solar pumps, we bring various environment-friendly, efficient, and simple pumping devices to fulfil the varying needs of our clients.

Our solar pumps can discharge up to 171000 LPD of water every day. They can pump more water if the sun shines brightly. However, they remain functional even in cloudy weather. The Photovoltaic modules (main power source of solar pumps) have no moving parts. Hence, they last for years without requiring any maintenance. A solar pump's system operates on DC power. Their output differs depending upon the rate of sunshine or changes in climatic conditions. These pumps are fitted with advanced remote monitoring technology. Thus, users can monitor the condition and status of the system from distance. They can set the pumping schedule and determine the speed of flow or water pressure using the integrated online function.

We are a top Solar Pumps manufacturer who brings to you 14 different models of solar pumps (starting from 1 hp to 10-hp). The measurement of the dynamic head may be 30-MTR, 50-MTR, 70-MTR and 100-MTR. The pump can discharge up to 171000-LPD of water and are available in varying PV-array capacity.



## Benefits of Solar Water Pumps

- Lasts for years and maintains high efficiency.
- Not depend upon Electricity and reduce CO2 Consumption.
- Designed to work in harsh conditions or in remote locations.
- Cost-effective repair and servicing due to modular design.
- Water filled motors offer reliability and absence of oil contamination.
- Easy to install.
- Spare parts availability at a cost-effective range.
- Wide variety of pumps for maximum efficiency irrespective of the application.

## Features of Solar Water Pumps

- Ideal for daytime irrigation and for all locations (especially for the places where electricity is unavailable).
- Can discharge water continuously for 6-8 hours/day in clear Sunny day.
- Maintenance-free water-pumps that are easier to install.
- Fitted with advanced remote monitoring technology, various online functions, and protection from short-circuit/over-current/over-voltage/under-voltage.
- Fitted with lightning arrestor and ground earthing kit.

## Applications of Solar Pumps

- Deep irrigation & other types of irrigation system
- Sprinkler system
- Lowering groundwater
- Fountains
- Tank/Cistern filling



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## SS DC SOLAR PUMPSET

Sr. No	HP/Kw	Solar Watt	Model	STAGE	HEAD	SHUT OFF	LPM	M3 / DAY	Motor Dai	Pump Dai	NRV
1	1.00/0.75	900W	USPDC900W30	8	30	45	65	30	4"	4"	1.5"
2	1.00/0.75	900W	USPDC900W60	14	60	80	35	16	4'	4"	1.5"
3	1.00/0.75	900W	USPDC900W90	18	90	120	18	9	4"	4"	1.25"
4	1.00/0.75	1200W	USPDC1200W30	8	30	45	90	43	4'	4"	1.5"
5	1.00/0.75	1200W	USPDC1200W60	14	60	80	45	21	4"	4"	1.5"
6	1.00/0.75	1200W	USPDC1200W90	18	90	120	22	11	4'	4"	1.25"
7	2.00/1.50	1800W	USPDC1800W30	6	30	45	120	57	4"	4"	2.0"
8	2.00/1.50	1800W	USPDC1800W50	12	50	70	70	33	4'	4"	1.5"
8	2.00/1.50	1800W	USPDC1800W70	16	70	100	45	22	4"	4"	1.5"
9	2.00/1.50	1800W	USPDC1800W90	18	90	120	30	14	4'	4"	1.5"
10	3.00/2.20	3000W	USPDC3000W7	1	7	12	800	375	4'	6"	4.0"
10	3.00/2.20	3000W	USPDC3000W14	2	14	20	550	260	4"	6"	3.0"
12	3.00/2.20	3000W	USPDC3000W20	4	20	33	400	190	4'	6"	2.5"
13	3.00/2.20	3000W	USPDC3000W30	4	30	45	300	140	4"	4"	2.5"
14	3.00/2.20	3000W	USPDC3000W50	12	50	70	160	75	4'	4"	2.0"
15	3.00/2.20	3000W	USPDC3000W70	15	70	100	120	55	4"	4"	2.0"
16	3.00/2.20	3000W	USPDC3000W100	21	100	150	70	33	4'	4"	1.5"
17	3.00/2.20	3000W	USPDC3000W120	25	120	170	45	21	4"	4"	1.5"
18	3.00/2.20	3000W	USPDC3000W150	33	150	200	30	14	4'	4"	1.25"
19	5.00/3.70	4800W	USPDC4800W8	1	8	13	1000	470	4"	6"	4.0"
20	5.00/3.70	4800W	USPDC4800W15	2	15	22	800	385	4'	6"	4.0"
21	5.00/3.70	4800W	USPDC4800W20	4	20	33	600	290	4"	6"	3.0"
22	5.00/3.70	4800W	USPDC4800W30	4	30	45	400	190	4'	6"	3.0"
23	5.00/3.70	4800W	USPDC4800W50	6	50	70	350	165	4"	6"	2.5"
24	5.00/3.70	4800W	USPDC4800W70	15	70	100	200	95	4'	4"	2.0"
25	5.00/3.70	4800W	USPDC4800W100	20	100	150	140	65	4"	4"	2.0"
26	5.00/3.70	4800W	USPDC4800W120	25	120	170	100	47	4'	4"	1.5"
27	5.00/3.70	4800W	USPDC4800W150	33	150	200	70	33	4"	4"	1.5"
28	7.50/5.50	6750W	USPDC6750W30	4	30	45	700	335	4'	6"	4.0"
29	7.50/5.50	6750W	USPDC6750W50	6	50	70	480	230	4"	6"	3.0"
30	7.50/5.50	6750W	USPDC6750W70	10	70	100	320	150	4'	6"	2.5"
31	7.50/5.50	6750W	USPDC6750W100	24	100	150	200	95	4"	4"	2.0"
32	7.50/5.50	6750W	USPDC6750W120	24	120	170	150	72	4'	4"	2.0"
33	7.50/5.50	6750W	USPDC6750W150	30	150	200	120	55	4"	4"	2.0"
34	10.0/7.50	9000W	USPDC9000W30	5	30	45	900	430	4'	6"	4.0"
35	10.0/7.50	9000W	USPDC9000W50	7	50	70	600	285	4"	6"	3.0"
36	10.0/7.50	9000W	USPDC9000W70	12	70	100	370	177	4'	6"	2.5"
37	10.0/7.50	9000W	USPDC9000W100	14	100	150	300	140	4"	6"	2.5"
38	10.0/7.50	9000W	USPDC9000W135	18	135	160	210	100	4'	6"	2.0"
39	10.0/7.50	9000W	USPDC9000W180	31	180	230	150	72	4"	4"	2.0"
40	10.0/7.50	9000W	USPDC9000W200	40	200	260	120	58	4"	4"	2.0"



## SOLAR PUMP CONTROLLER

### Available in IP 54 / IP 65 enclosure

- Over Voltage, Low Voltage & Dry Run Protection
- Remote Monitoring System available
- MPPT - Maximum Power point tracking for maximizing the efficiency
- Available with LED Display to Show Input DC voltage, Output AC Voltage, Frequency with System Status
- Easy to Start to increase the System Life



HP	kW	VOLTAGE	CURRENT	Voc (V) Range of Panel	CODE
1	0.75	160 V	9.5 A	175 - 380	USPC01
2	1.50	160 V	9.5 A	175 - 420	USPC02
3	2.20	230 V	9.5 A	175 - 420	USPC03
5	3.70	380 V	10 A	620 - 750	USPC05
7.5	5.50	320 V	17 A	620 - 750	USPC7.5
10	7.50	380 V	17 A	620 - 750	USPC10
15	11.00	380V	25 A	620 - 750	USPC15
20	15.00	380V	32 A	620 - 750	USPC20

## SOLAR PHOTOVOLTAIC MODUES

- Quality Controller as per International Standard
- 25 Years of Performance Warranty
- Certified PID (Potential-Induced Degradation) free
- Free From Micro Crack
- RoHS Certified (Restriction of Hazardous Substances)
- High withstand capacity of wind pressure and snow load
- Module Efficiency up to 17.00 %
- Zero Negative Tolerance



HP	kW	VOLTAGE	CURRENT	Voc (V) Range of Panel	CODE
1	0.75	160 V	9.5 A	175 - 380	USPC01
2	1.50	160 V	9.5 A	175 - 420	USPC02
3	2.20	230 V	9.5 A	175 - 420	USPC03
5	3.70	380 V	10 A	620 - 750	USPC05
7.5	5.50	320 V	17 A	620 - 750	USPC7.5
10	7.50	380 V	17 A	620 - 750	USPC10
15	11.00	380V	25 A	620 - 750	USPC15
20	15.00	380V	32 A	620 - 750	USPC20



Since 1969  
**Unnati**<sup>®</sup>  
MOTORS | PUMPS

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