



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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A AC SURFACE SOLAR PUMPSET



PUMP SET		SOLAR PANEL		MODEL	STAGE	Head Range (M)	DISCHARGE RANGE (M3/DAY)
HP	kW	Mini. Wp.	No. of 300 to 335 Panel				
1	0.75	1200 Wp	4	USPAC01SUR10	110	10	100
2	1.50	1800 Wp	6	USPAC02SUR10	160	10	175
3	2.20	3000 Wp	9 or 10	USPAC03SUR10	230	10	270
				USPAC03SUR20		20	135
5	3.70	4800 Wp	15 or 16	USPAC05SUR10	380	10	475
				USPAC05SUR20		20	235
7.5	5.50	7000 Wp	24	USPAC7.5SUR10	320	10	640
				USPAC7.5SUR20		20	330
10	7.50	9000 Wp	28 or 30	USPAC10SUR10	380	10	890
				USPAC10SUR20		20	440

SUPER FLOW OPENWELL SOLAR PUMPSET



PUMP SET			SOLAR PANEL		MODEL	MOC	HEAD (M)	HEAD RANGE (M)	Dish at Duty point (M3/Day)	DISCHARGE RANGE (M3/DAY)
HP	kW	PIPE SIZE (mm)	Mini. Wp.	No. of 300 to 335 Panel						
3	2.2	65 X 50	3000 Wp	9 or 10	USPAC03OPENSF20MS50	M.S	20	15 - 25	170	215 - 80
		65 X 65			USPAC03OPENSF20MS65	M.S	20	15 - 25	280	375 - 160
		65 X 50			USPAC03OPENSF22MS50	M.S	22	15 - 28	190	250 - 80
		65 X 50			USPAC03OPENSF20CI50	C.I	20	15 - 25	180	230 - 115
		65 X 65			USPAC03OPENSF20CI65	C.I	20	15 - 25	260	375 - 150
5	3.7	65 X 65	4800 Wp	15 or 16	USPAC05OPENSF22MS65	M.S	22	15 - 27	310	420 - 200
		65 X 50			USPAC05OPENSF27MS50	M.S	27	20 - 30	170	270 - 100
		65 X 50			USPAC05OPENSF35MS50	M.S	35	25 - 40	170	270 - 50
		65 X 50			USPAC05OPENSF28MS50	M.S	28	15 - 35	200	300 - 80
		75 X 65			USPAC05OPENSF22MS65	M.S	22	15 - 30	315	450 - 180
		75 X 65			USPAC05OPENSF25MS65	M.S	25	15 - 35	320	425 - 150
		65 X 50			USPAC05OPENSF39MS50	M.S	39	28 - 44	210	300 - 130
7.5	5.5	75 X 65	7000 Wp	24	USPAC7.5OPENSF25MS65	M.S	25	15 - 35	330	430 - 160
		65 X 50			USPAC7.5OPENSF35MS50	M.S	35	30 - 39	210	250 - 150
		65 X 50			USPAC7.5OPENSF39MS50	M.S	39	34 - 44	220	300 - 210

OVER FLOW CR OPENWELL SOLAR PUMPSET (OVERFLOW) CR ROTOR



PUMP SET			SOLAR PANEL		MODEL	MOC	HEAD (M)	HEAD RANGE (M)	Dish at Duty point (M3/Day)	DISCHARGE RANGE (M3/DAY)
HP	kW	PIPE SIZE (mm)	Mini. Wp.	No. of 300 to 335 Panel						
5	3.7	100 X 100	4800 Wp	15 or 16	USPAC05OPNOF100CI12CR	C.I	12	10 - 20	580	660 - 80
		75 X 75			USPAC05OPNOF75CI20CR	C.I	20	10 - 27	430	580 - 220
		65 X 65			USPAC05OPNOF65CI22CR	C.I	22	17 - 30	410	500- 250
		65 X 65			USPAC05OPNOF65CI27CR	C.I	27	20 - 32	350	430 - 240
		65 X 50			USPAC05OPNOF50CI30CR	C.I	30	25 - 37	250	300 - 200
		65 X 50			USPAC05OPNOF50CI35CR	C.I	35	25 - 42	250	300 - 130
7.5	5.5	100 X 100	7000 Wp	24	USPAC7.5OPNOF100CI15CR	C.I	15	10 - 27	700	850 - 250
		100 X 75			USPAC7.5OPNOF75CI22CR	C.I	22	15 - 27	500	675 - 300
		75 X 75			USPAC7.5OPNOF75CI27CR	C.I	27	20 - 35	420	535 - 270
		65 X 50			USPAC7.5OPNOF50CI37CR	C.I	37	30 - 45	320	400 - 165
		65 X 50			USPAC7.5OPNOF50CI40CR	C.I	40	35 - 50	275	330 - 90
		65 X 50			USPAC7.5OPNOF50CI42CR	C.I	42	35 - 50	275	340 - 90
		65 X 50			USPAC7.5OPNOF50CI45CR	C.I	45	35 - 55	232	300 - 90
		65 X 50			USPAC7.5OPNOF50CI27CR	C.I	27	22 - 35	625	730 - 325
10	7.5	100 X 100	9000 Wp	28 or 30	USPAC10OPNOF100CI27CR	C.I	27	20 - 37	550	710 - 150
		100 X 75			USPAC10OPNOF75CI30CR	C.I	30	22 - 37	480	575 - 200
		75 X 75			USPAC10OPNOF65CI35CR	C.I	35	27 - 50	385	450 - 60
		65 X 65			USPAC10OPNOF50CI42CR	C.I	42	35 - 50	290	350 - 70
		65 X 50			USPAC10OPNOF55CI55CR	C.I	55	42 - 63	235	315 - 70

DC SURFACE SOLAR PUMPSET



PUMP SET		SOLAR PANEL		MODEL	MOTOR VOLTAGE	Head (M)	DISCHARGE RANGE (M3/DAY)
HP	kW	Mini. Wp.	No. of 300 to 335 Panel				
1	0.75	1200 Wp	4	USPDC01SUR120010	110	10	100
2	1.50	1800 Wp	6	USPDC02SUR180010	160	10	175
3	2.20	3000 Wp	10	USPDC03SUR300010	230	10	270
				USPDC03SUR300020	230	20	135
5	3.70	4800 Wp	16	USPDC05SUR480010	380	10	475
				USPDC05SUR480020	380	20	235
				USPDC05SUR480030	380	30	175
7.5	5.50	7000 Wp	24	USPDC7.5SUR700010	320	10	640
				USPDC7.5SUR700020	320	20	330
				USPDC7.5SUR700030	320	30	250
10	7.50	9000 Wp	30	USPDC10SUR900010	380	10	890
				USPDC10SUR900020	380	20	440
				USPDC10SUR900030	380	30	350



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[®]
MOTORS | PUMPS

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