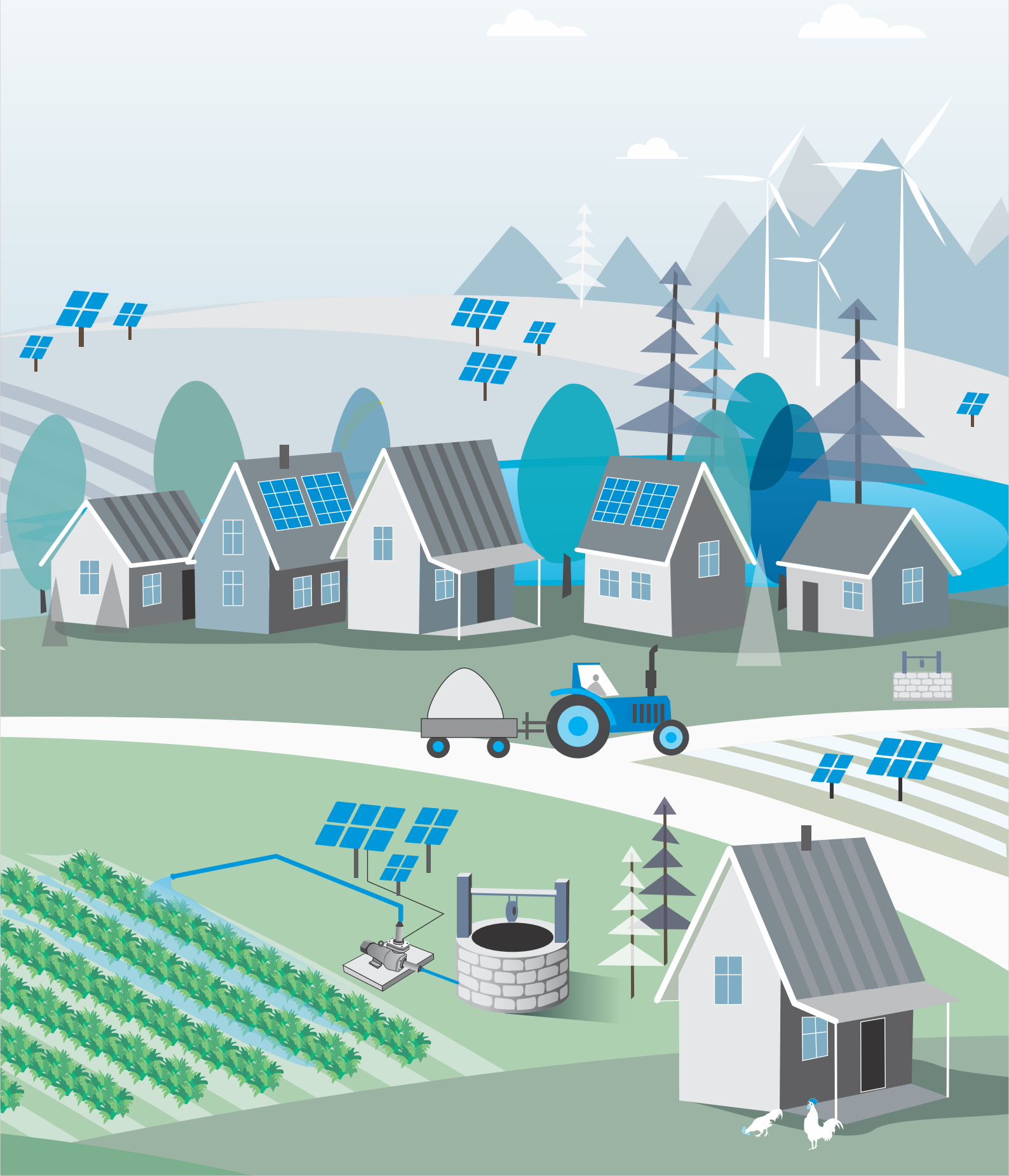


# HIGH PERFORMANCE SOLAR

SURFACE PUMPS POOL PUMPS  
SUBMERSIBLE PUMPS

**ROTOSOL**  
BY ROTOMAG







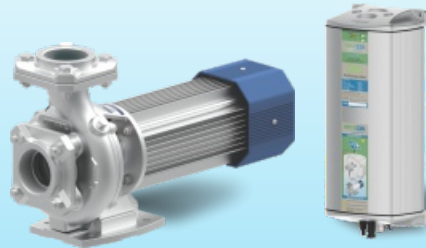
### Surface Pumps for Flood Irrigation

Water intensive crops like Rice, Sugarcane and Soya require flooded soil for its growth. For such water intensive crops, flood irrigation through high discharge solar pumps is ideal.



### Surface Pumps for Livestock Watering

It is expensive to run power lines across long distances to provide electricity to pumps that provide water for livestock. An ideal solution is a solar pumping system as it eliminates the need for electric lines and delivery of water is guaranteed.



### Submersible Pumps for Drip Irrigation

Where there is water scarcity, using a solar pumping system coupled with drip irrigation systems can increase water saving by 70% and increase yield by 150% for a variety of crops.



### Submersible Pumps for Drinking Water

Solar pumps are a quick and efficient way to distribute water to communities where households rely on water that is manually drawn from a well.



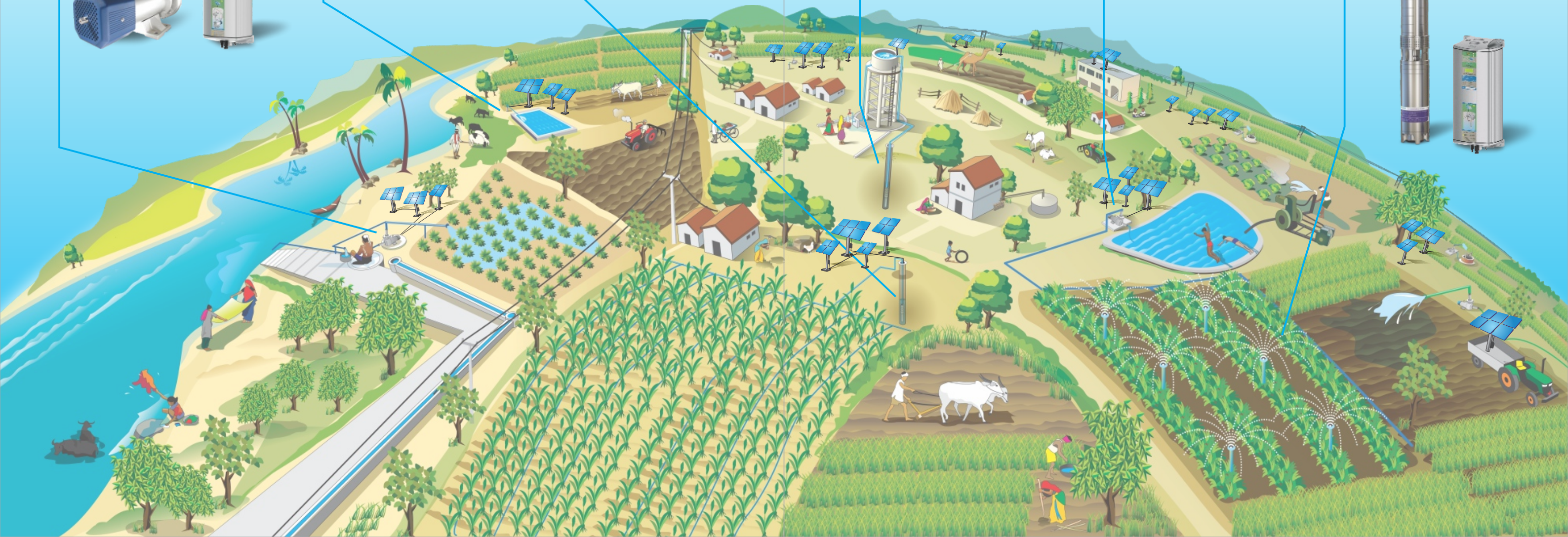
### Pool Pumps for Swimming Pools

Water filtration needs of residential and commercial pools are met by using solar pumps. This means there is zero electricity cost and significant savings.



### Submersible Pumps for Sprinkler Systems

Crops that are grown closely together such as cereals, pulses, wheat, etc. benefit from sprinkler systems powered by solar pumps. This results in upto 55% of water saving and 100% savings on electricity costs.





## About Rotomag



Rotomag group is globally recognized for the manufacture of high performance motors, gearboxes and solar pumps. Incorporated in 1992, the Rotomag group has 3 companies and 5 brands. Rotomag, the flagship company of this group manufactures DC motors, gearboxes and solar pumps. Rotomotive in collaboration with Motive, Italy manufactures AC motors and gearboxes. Rotodrive a division of Rotomotive manufactures drives for electric vehicles and Magtor in collaboration with Magnetic, Italy manufactures servo motors and drives.

## Manufacturing

Our world class manufacturing facilities are spread over 1.6 lakh sq. ft. with a capacity to manufacture 28000 motors and 5000 pumps per month.

Key processes like controlled magnetizing, waterproof encapsulation, trickle impregnation, brazing, resiglass branding, dynamic balancing and assembly enable us to build product reliability during the manufacturing stage.

Inhouse state of the art R&D and QA ensures that every new product that is developed exceeds international standards of performance and quality.

Automatic testing facilities for solar pumps and solar PV simulators push our pumps to the limits of their performance and ensure that pumps meet the specifications laid down by our clients.



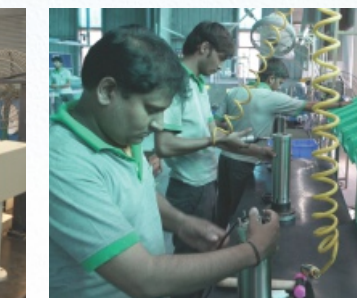
ISO 9001:2015



ISO 14001:2015



OHSAS 18001:2007



### Milestones

Development of 1HP DC surface pumps

Development of BLDC submersible pumps begins

BLDC submersible pumps developed and approved by EQDC

Remote monitoring unit to view real time pump performance developed.

7.5HP and 10HP DC submersible pumps developed.

Won the IPF product excellence award.

New dedicated manufacturing facility for pumps.

New rugged series of controller and pump developed.

Helical rotor pump and Open well pump.

AC pumps launched.

### Installed Base

1999

2002

4500 surface pumps

2011

2013

2014

6500 surface pumps  
250 submersible pumps

2015

8000 surface pumps  
3350 submersible pumps

2016

10900 surface pumps  
8650 submersible pumps

2017

12700 surface pumps  
15750 submersible pumps

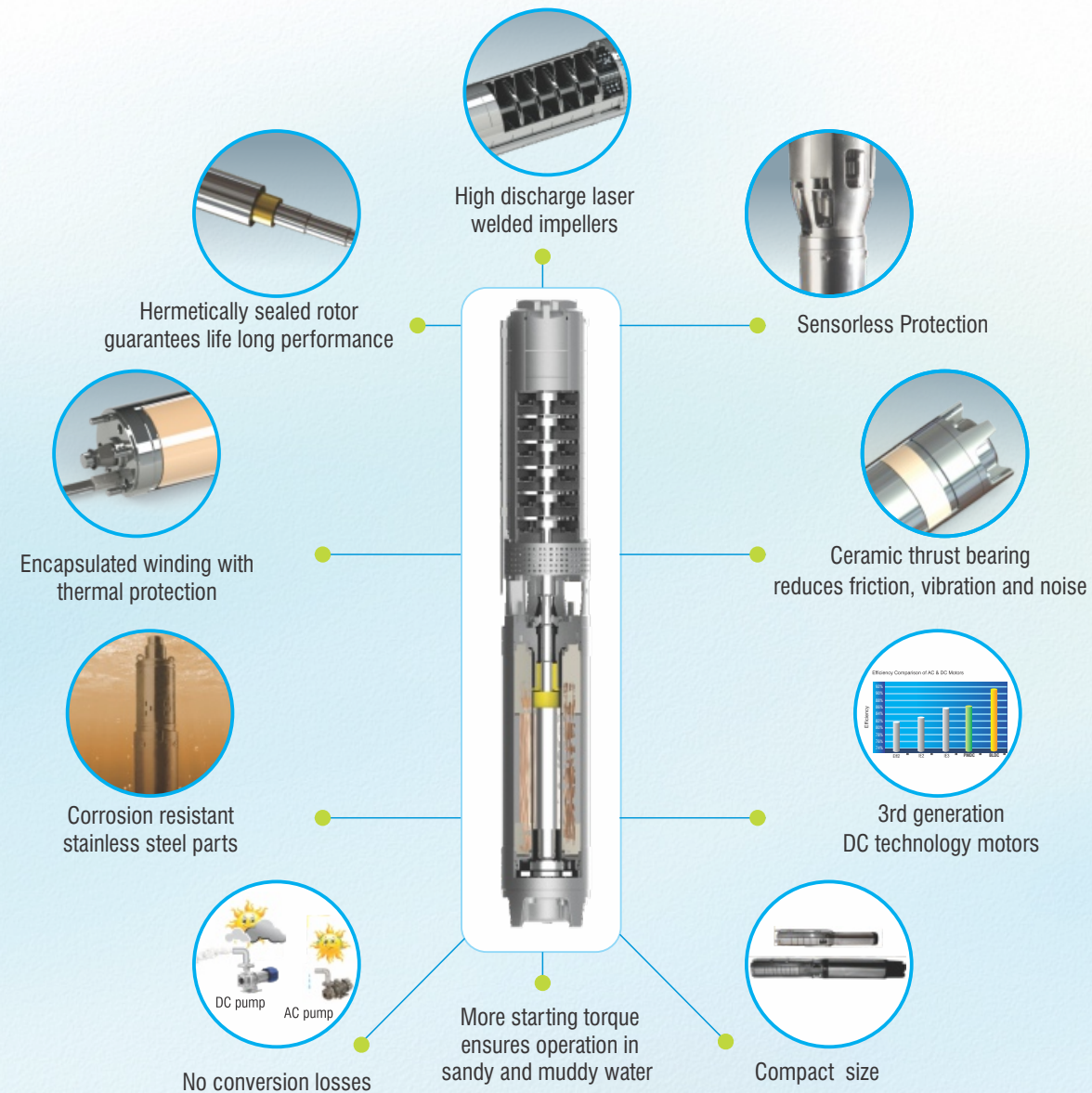
2018

30000\* surface pumps  
45000\* submersible pumps

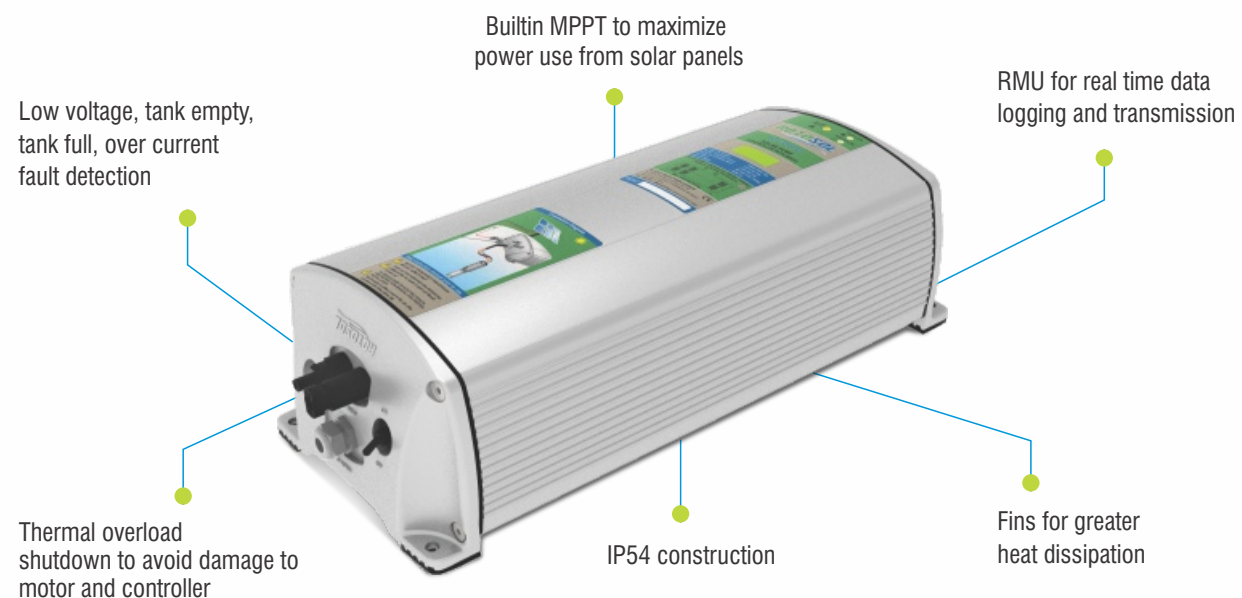
\*anticipated



## Unique Features of Rotosol Solar Pumps



## Unique features of Rotosol Controllers



## Software and Apps



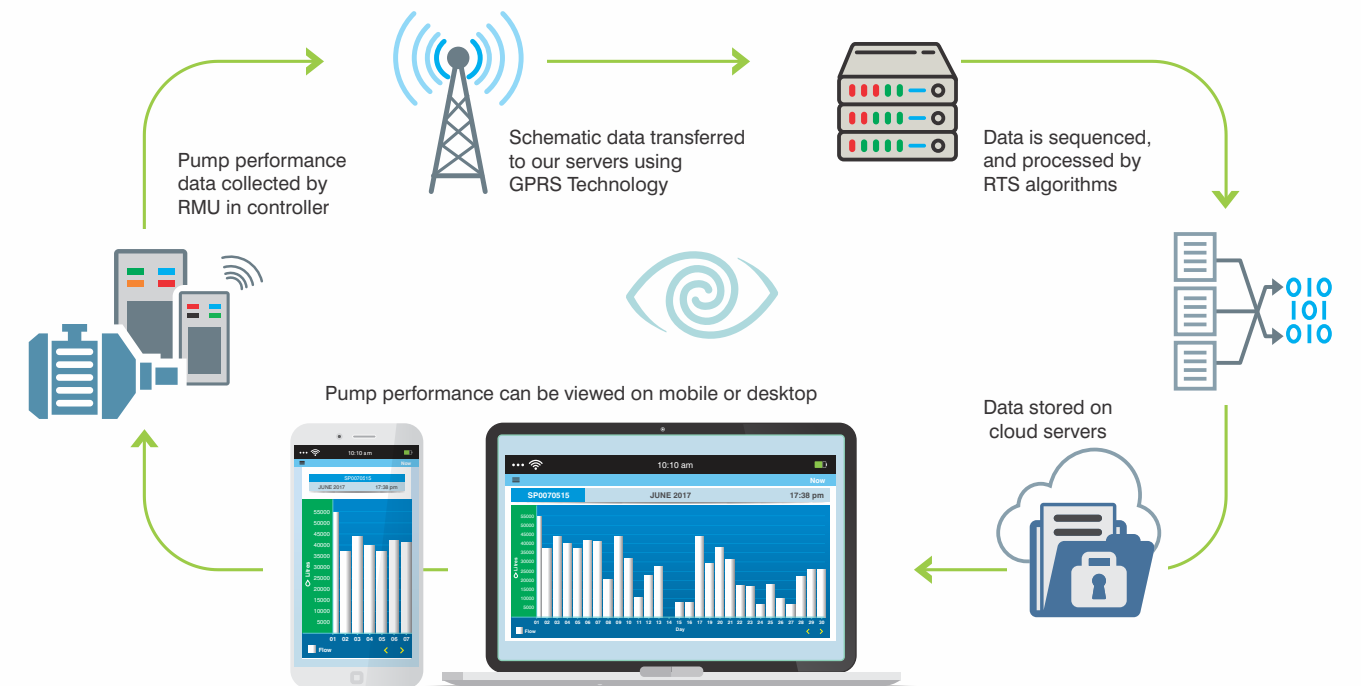
### Pump Selector | Select the right pump to suit your needs

The pump selector is an online app that selects the best pump based on the input of a few site parameters.



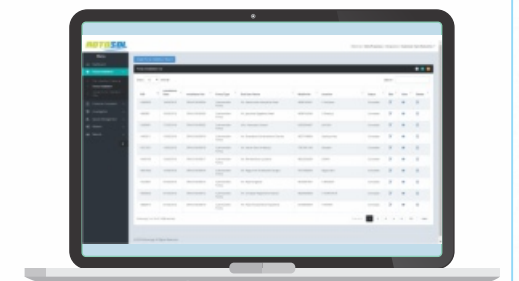
### Pump Eye | Monitor your pump performance

The pump eye provides real time data on pump performance and status of either single or multiple installations. Data can be compiled into reports for performance appraisal. The pump eye is available on desktop and as a mobile app.



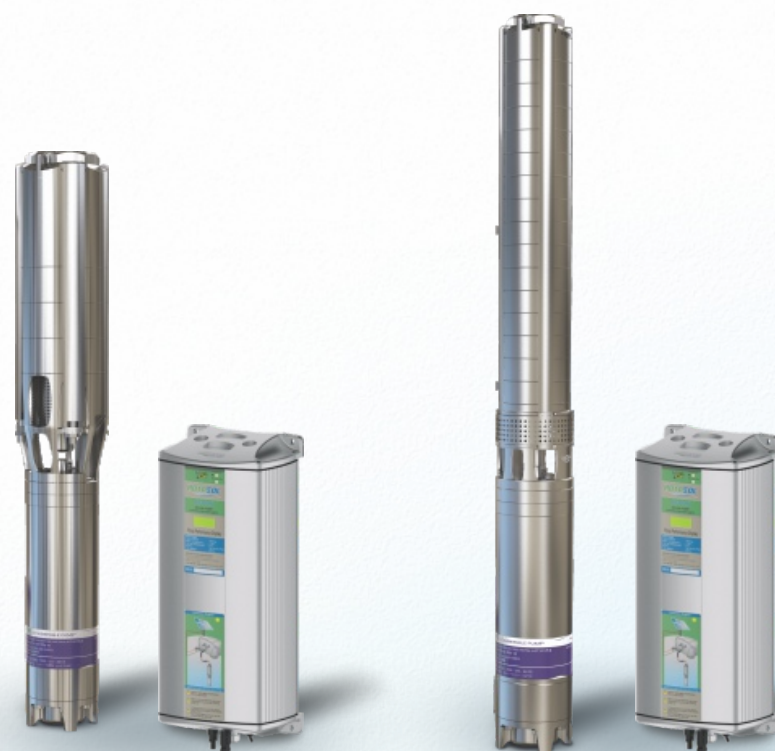
### Flodesk

This software empowers service personnel to provide prompt and efficient after sales support to customers. Right from installation, the software holds the service history of a pump which enables our service team to map out maintenance trends. This allows us to continuously improve on our product and on end user training.





## Submersible Pumps for Irrigation



Model	Array Rating (Wp)	Motor Power	SPV Array (VOC)	Input Voltage (Vmp)	Pump Type	Discharge (LPD)	Discharge calculated at (m)	Shut off Head (m)
RS1200	1200	750W (1HP)	148-222	129-194	RD010H020	60000	20	25
					RD010H030	42000	30	45
					RD010H050	25200	50	70
					RD010H070	16800	70	150
					RD010H100	11400	100	150
RS1800	1800	1500W (2HP)	222-326	194-284	RD020H030	63000	30	45
					RD020H050	37800	50	70
					RD020H070	25200	70	150
					RD020H100	17100	100	150
RS3000 (All Series connections)	3000	2250W (3HP)	250-450	180-400	RD030H020	150000	20	45
					RD030H030	105000	30	45
					RD030H050	63000	50	70
					RD030H070	42000	70	150
					RD030H100	28500	100	150
RS3000 (Series-Parallel connections)	3000	2250W (3HP)	178-266	155-232	RD030H020	150000	20	45
					RD030H030	105000	30	45
					RD030H050	63000	50	70
					RD030H070	42000	70	150
					RD030H100	28500	100	150
RS5000 (All Series connections)	4800	3750W (5HP)	400-770	300-620	RD050H020	240000	20	45
					RD050H030	168000	30	45
					RD050H050	100800	50	70
					RD050H070	67200	70	100
					RD050H100	45600	100	150
RS5000 (Series-Parallel connections)	4800	3750W (5HP)	296-407	258-355	RD050H020	240000	20	45
					RD050H030	168000	30	45
					RD050H050	100800	50	70
					RD050H070	67200	70	150
					RD050H100	45600	100	150
RS7500	7500	5625W (7.5HP)	484-530	390-432	RD075H050	141750	50	70
					RD075H070	94500	70	100
					RD075H100	64125	100	150
RS10000	10000	7500W (10HP)	616-704	504-576	RD100H050	189000	50	70
					RD100H100	85500	100	150

Water output figures are on a clear sunny day with 3 times tracking of SPV panel, under "Average Daily Solar Radiation" condition of 7.15 KWh/sq.m on the surface of PV Array (i.e. coplanar with PV module) Standard Test Condition : AM=1.5, E=1000W/m<sup>2</sup>, Cell Temperature : 25°C

## Submersible Pumps for Drinking Water

Model	Array Rating (Wp)	Motor Power	SPV Array (VOC)	Input Voltage (Vmp)	Pump Type	Discharge (LPD)	Discharge calculated at (m)	Shut off Head (m)
EJ500	500	375W (0.5HP)	67-96	58-84	EJ005H010	20000	10	12
					EJ005H020	10000	20	25
					EJ005H030	6000	30	45
RDW500	500	375W (0.5HP)	67-96	58-84	RW005H030	13400	30	45
					RW005H060	6700	60	90
RDW750	750	560W (0.75HP)	96-126	84-110	RW007H030	16700	30	45
					RW007H060	8400	60	90
					RW007H090	4200	90	120
RDW900	900	750W (1HP)	126-148	110-129	RW010H030	20000	30	45
					RW010H060	10000	60	90
					RW010H090	5000	90	120

Water output figures are on a clear sunny day with 3 times tracking of SPV panel, under "Average Daily Solar Radiation" condition of 7.15 KWh/sq.m on the surface of PV Array (i.e. coplanar with PV module)

Standard Test Condition : AM=1.5, E=1000W/m<sup>2</sup>, Cell Temperature : 25°C

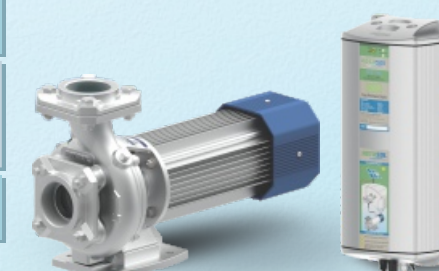


## BLDC Surface Pumps

Model	Array Rating (Wp)	Motor Power	SPV Array (VOC)	Input Voltage (Vmp)	Pump Type	Discharge (LPD)	Suction Head (m)	Discharge calculated at (m)	Shut off Head (m)
RB900	900	750W (1HP)	126-148	110-129	RB010H010	90000	7	10	12
RB1800	1800	1500W (2HP)	222-326	194-284	RB020H010	180000	7	10	12
RB3000	2700	2250W (3HP)	250-450	180-400	RB030H010	270000	7	10	12
					RB030H020	135000		20	25
RB5000	4800	3750W (5HP)	400-770	300-620	RB050H020	240000	7	20	25

Water output figures are on a clear sunny day with 3 times tracking of SPV panel, under "Average Daily Solar Radiation" condition of 7.15 KWh/sq.m on the surface of PV Array (i.e. coplanar with PV module)

Standard Test Condition : AM=1.5, E=1000W/m<sup>2</sup>, Cell Temperature : 25°C



## PMDC Surface Pumps

Model	Array Rating (Wp)	Motor Power	SPV Array (VOC)	Input Voltage (Vmp)	Rated Current (A)	Discharge (LPD)	Suction Head (m)	Discharge calculated at (m)	Shut off Head (m)
MBP 30	900	750W (1HP)	133-148	116-129	8.5	90000	7	10	12
MBP 60	1800	1500W (2HP)	89-99	77-86	25	180000	7	10	12
MBP 90	2700	2250W (3HP)	133-148	116-129	25	270000	7	10	15
MBP90-HD	2700	2250W (3HP)	133-148	116-129	25	135000	7	20	25

Water output figures are on a clear sunny day with 3 times tracking of SPV panel, under "Average Daily Solar Radiation" condition of 7.15 KWh/sq.m on the surface of PV Array (i.e. coplanar with PV module)

Standard Test Condition : AM=1.5, E=1000W/m<sup>2</sup>, Cell Temperature : 25°C





## AC Submersible Pumps for Irrigation

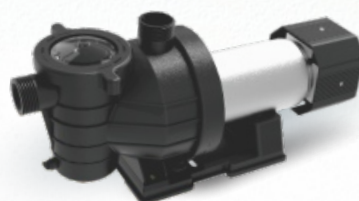


Model	Array Rating (Wp)	Motor Power	SPV Array (VOC)	Input Voltage (Vmp)	Pump Type	Discharge (LPD)	Discharge calculated at (m)	Shut off Head (m)
RA3000	3000	2250W (3HP)	250-450	180-400	RA030H020	135000	20	45
					RA030H030	96000	30	45
					RA030H050	57000	50	70
					RA030H070	39000	70	150
					RA030H100	25500	100	150
RA5000	4800	3750W (5HP)	400-770	300-620	RA050H020	216000	20	45
					RA050H030	153600	30	45
					RA050H050	91200	50	70
					RA050H070	62400	70	150
					RA050H100	40800	100	150
RA7500	6750	5625W (7.5HP)	484-530	390-432	RA075H050	128250	50	70
					RA075H070	87750	70	100
					RA075H100	57375	100	150
RA10000	9000	7500W(10HP)	660	>540	RA100H050	189000	50	70
					RA100H100	85500	100	150

Water output figures are on a clear sunny day with 3 times tracking of SPV panel, under "Average Daily Solar Radiation" condition of 7.15 KWh/sq.m on the surface of PV Array (i.e. coplanar with PV module) Standard Test Condition : AM=1.5, E=1000W/m<sup>2</sup>, Cell Temperature : 25°C

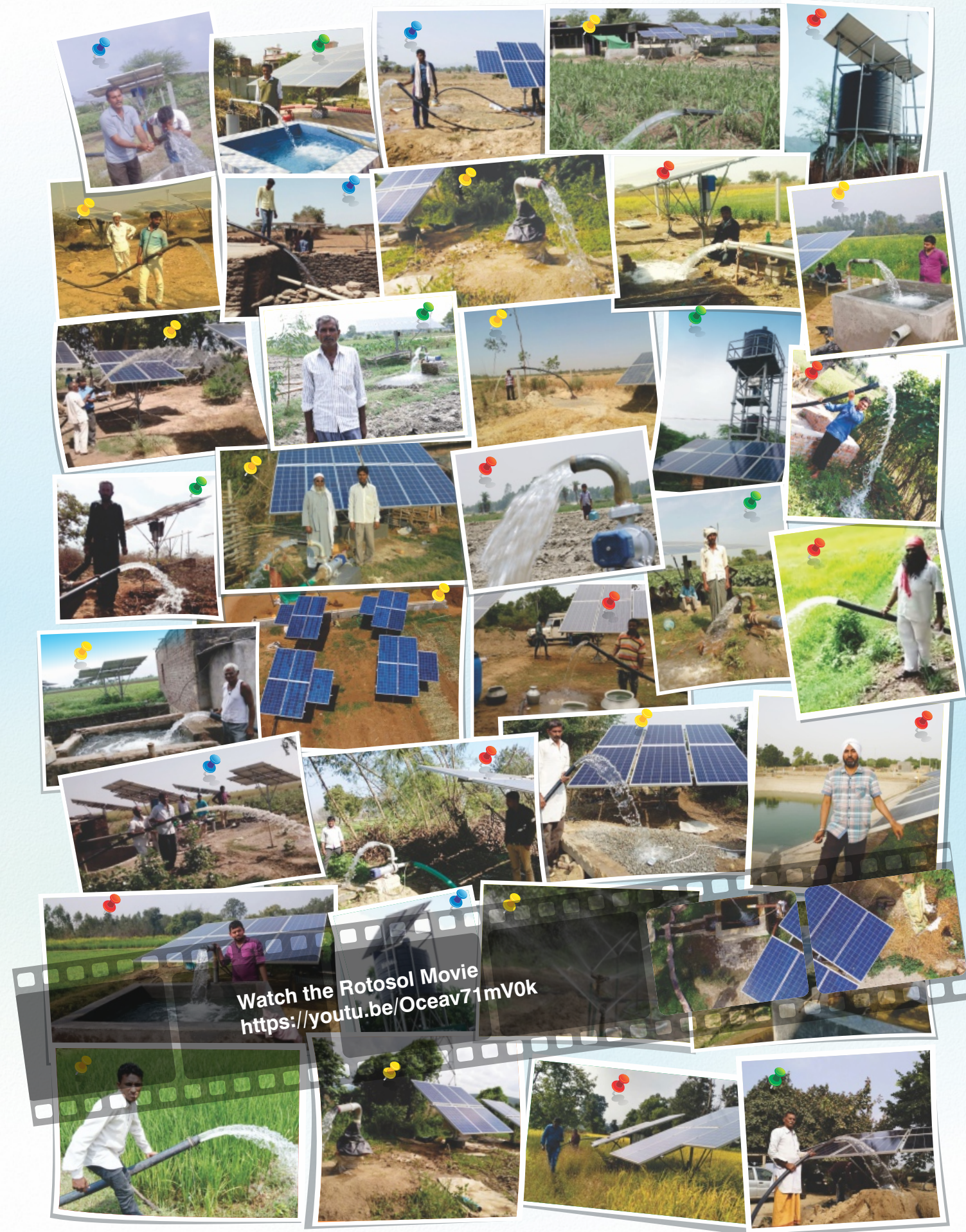
## Pool Pumps

Model	Array Rating (Wp)	Motor Power	SPV Array (VOC)	Input Voltage (Vmp)	Rated Current (A)	Discharge (LPD)	Suction Head (m)	Discharge calculated at (m)	Shut off Head (m)
RSP24	450	375W (0.5HP)	36-45	30-36	17	83000	3	6	10
RSP30	900	750W (1HP)	36-45	30-36	25	88000	3	6	13
RSP60	1800	1500W (2HP)	89-99	77-86	25	125000	3	10	16



Water output figures are on a clear sunny day with 3 times tracking of SPV panel, under "Average Daily Solar Radiation" condition of 7.15 KWh/sq.m on the surface of PV Array (i.e. coplanar with PV module) Standard Test Condition : AM=1.5, E=1000W/m<sup>2</sup>, Cell Temperature : 25°C

## Every user of solar pump has a success story to share



Watch the Rotosol Movie  
<https://youtu.be/Oceav71mV0k>

Read more stories <http://www.rotosol.solar/stories/>





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