

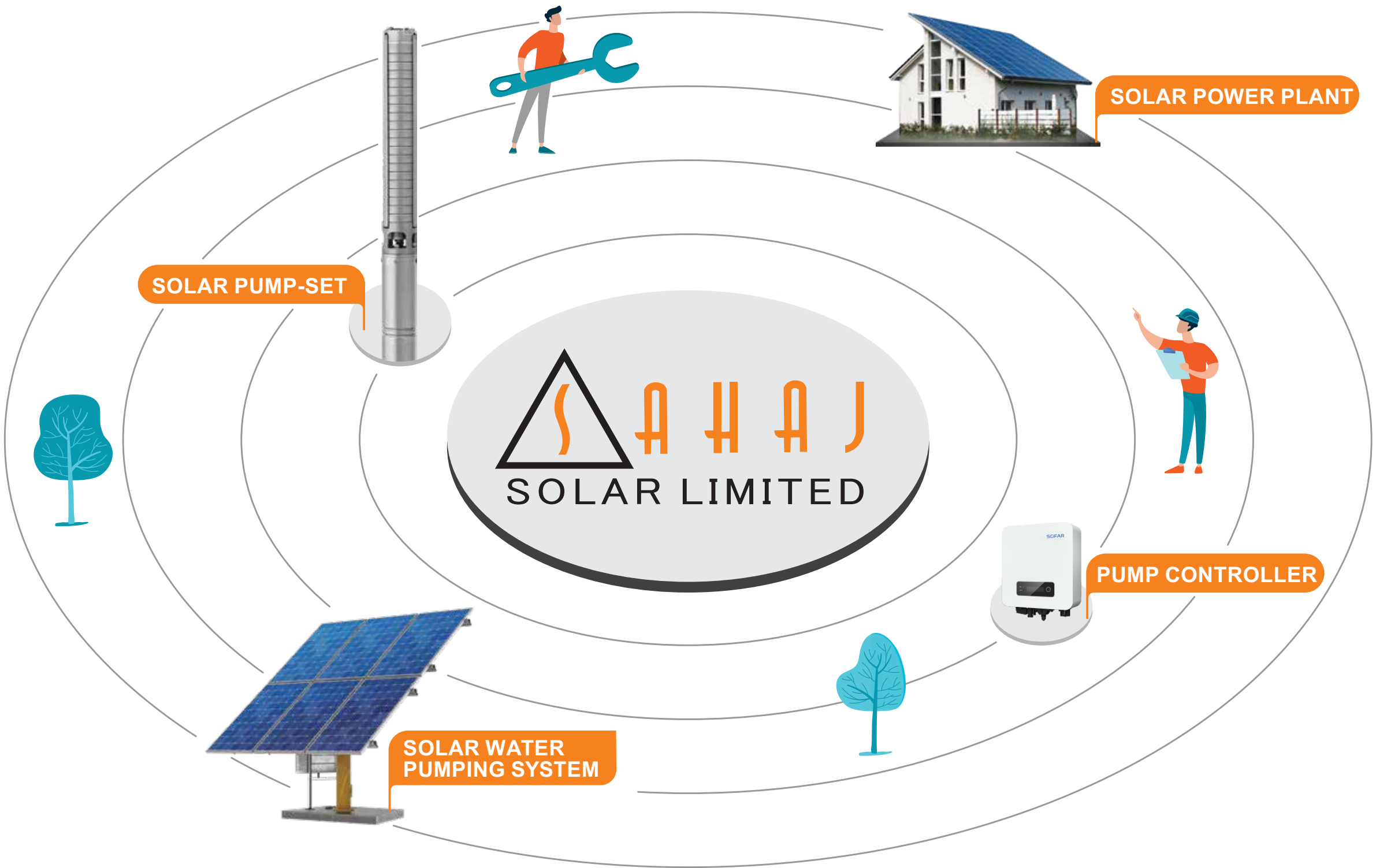


GETTING WATER FROM SUN

THAT'S THE REAL INNOVATION

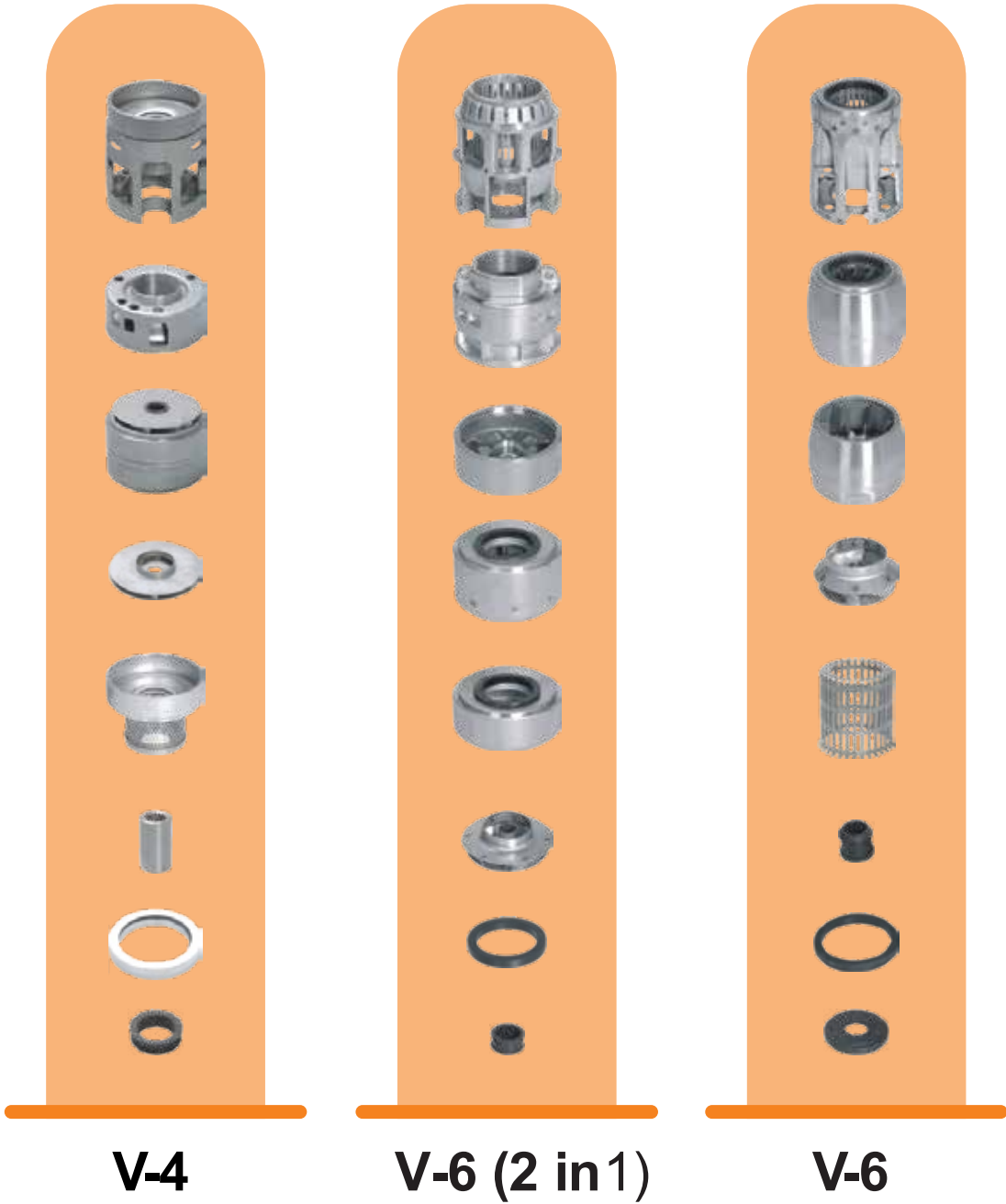
CHALLENGE
ACCEPTED

PRODUCT PROFILE



SOLAR PUMP-SETS

COMPONENTS OF SS PUMPS



MATERIAL OF CONSTRUCTION

No	Component	Material
01	Pump Shaft	SS-431
02	Bowl	SS-304
03	Impeller	SS-304
04	NRV	SS-304
05	Suction Housing	SS-304
06	Neck Ring	Nitrile Rubber
07	Strainer	SS-304
08	Cable Guard	SS-304

No	Component	Material
01	Upper Housing	SS-304
02	Lower Housing	C.I.Gr.FG200
03	Motor Base	SS-304
04	Rotor Shaft	SS-431
05	Motor Body Pipe	SS-304
06	Rubber Parts	Nitrile Rubber
07	Bearing	Bearing Steel
08	Shaft Seal	Sic/Ceramic

No	Component	Material
01	Upper Housing	SS-304
02	Lower Housing	SS-304
03	Motor Base	SS-304
04	Rotor Shaft	SS-431
05	Motor Body Pipe	SS-304
06	Rubber Parts	Nitrile Rubber
07	Thrust Bearing	SS/Carbon
08	Shaft Seal	Nitrile Rubber
09	Bush	LTB-4 or Carbon

PUMPS OVERVIEW

Sahaj Pumps, today, is recognized in the market for its high quality standard products, efficient and advanced technology, new product developments and ethical business practices.

TODAY WE ARE PROUD TO PROVE IT ONCE AGAIN WITH DEVELOPMENT OF SOLAR SUBMERSIBLE PUMP SET (FULLY SS) SERIES



We have successfully developed fully SS pumps in 304 grades.

We have made it simple and easy for a customer to use a non-corrosive, technically advanced and sturdy but light weight pumps to fulfil their day to day requirements of water.



ABOUT THE PUMP

We have offered a comprehensive range of full SS pumps in V-4/V-6 section, with a very sturdy and tough technology product.

It is designed meticulously for lowest friction and highest performance with longer trouble free working life.

The use of SS 304 ensures non corrosion & longer life. Guide bushes and rings are elastic in nature, allow the sand particles to flow along with the water discharge, hence preventing the abrasion of bush and self ensuring low maintenance of the pump.

Even the light weight and self-balanced impellers ensure high efficiency and longer life of motor as well.

ABOUT THE MOTOR

We offer motor designed for low voltage operation which can be operated in low power condition and still achieve maximum LPD.

We offer Solar Submersible motor in Oil filled type for the range of 0.5 HP to 5 HP and from 5 HP onward, we offer water filled type.

We follow the **ISO** Standard.

TECHNICAL SPECIFICATIONS

No	Component	V-4	V-6
01	Power Range	0.5 HP to 7.5 HP	3.0 HP 50 HP
02	Head Range	6 Mtrs to 435 Mtrs	2 Mtrs to 473 Mtrs
03	Flow Rate	13 LPM to 180 LPM	140 LPM to 1400 LPM
04	Delivery Size	32 & 40 mm	65, 80 & 100 mm
05	Sync. Speed	2 Pole 2800 rpm 4 Pole 3000 rpm	2 Pole 2800 rpm 4 Pole 3000 rpm
06	Direction of Rotation	Anti Clockwise When Viewed From Top	Anti Clockwise When Viewed From Top
07	Bore Size	100 mm	150 mm

SOLAR AC BOREWELL SUBMERSIBLE PUMP-SET

Model	HP	Voltage	Power (Watt)	Head (M)	Shut off Head (M)	LPM	LPD	Motor Size V4/V6	Pump Size V4/V6	Delivery Size (inch)	Type of Motor Oil Fill / Water Fill
VPSMAC-01-30	1	70	1200	30	45	140	42000	V4	V4	2	OF
VPSMAC-02-30	2	90	1800	30	45	210	63000	V4	V4	2	OF
VPSMAC-03-30	3	160	3000	30	45	250	106000	V4	V6	2.5	OF & WF
VPSMAC-03-50	3	160	3000	50	70	145	63000	V4	V4	2	OF & WF
VPSMAC-03-70	3	160	3000	70	100	131	42000	V4	V4	2	OF & WF
VPSMAC-05-30	5	240	4800	30	50	560	168000	V4 & V6	V6	3	OF & WF
VPSMAC-05-50	5	240	4800	50	70	250	100800	V4 & V6	V6	2.5	OF & WF
VPSMAC-05-70	5	240	4800	70	100	165	72000	V4 & V6	V4	2	OF & WF
VPSMAC-05-100	5	240	4800	100	150	125	49500	V4 & V6	V4	2	OF & WF
VPSMAC-7.5-30	7.5	330	6750	30	50	750	250000	V4 & V6	V6	4	WF
VPSMAC-7.5-50	7.5	330	6750	50	70	305	142000	V4 & V6	V6	2.5	WF
VPSMAC-7.5-70	7.5	330	6750	70	100	255	94500	V4 & V6	V6	2.5	WF
VPSMAC-7.5-100	7.5	415	6750	100	150	160	65000	V4 & V6	V4	2	WF
VPSMAC-10-70	10	415	9000	50	70	480	189000	V6	V6	3	WF
VPSMAC-10-100	10	415	9000	70	100	310	126000	V6	V6	2.5	WF



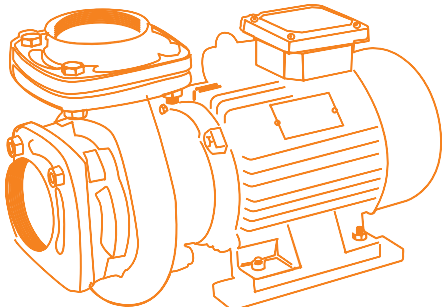
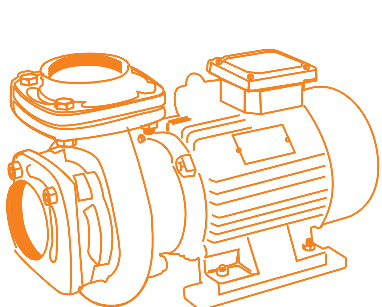
SOLAR AC BOREWELL SUBMERSIBLE PUMP-SET

SOLAR AC SURFACE PUMP-SET

SOLAR DC BOREWELL SUBMERSIBLE PUMP-SET

SOLAR AC SURFACE PUMP-SET

Model	HP	Voltage	Power (Watt)	Head (M)	Shut off Head (M)	LPM/SU.H	Discharge (LPD)	SUCTION SIZE (INCH)	DELIVERY SIZE (INCH)
VPSFAC-01-10	1	50	900	10	12	208/7	89100	2	2
VPSFAC-02-10	2	90	1800	10	17	470/7	178200	3	3
VPSFAC-03-10	3	230	2700	10	13	6650/7	267300	4	4
VPSFAC-03-10	3	230	2700	10	17	565/7	267300	3	3
VPSFAC-03-20	3	230	2700	20	27	350/7	132300	2.5	2
VPSFAC-05-10	5	240	4800	10	21	1216/6	475200	4	4
VPSFAC-05-20	5	240	4800	20	34	270/7	235200	2.5	2
VPSFAC-05-30	5	240	4800	30	37	405/7	168000	2.5	2
VPSFAC-7.5-10	7.5	330	6750	10	28	1260/6	668250	4	4
VPSFAC-7.5-20	7.5	330	6750	20	28	875/6	330750	4	4
VPSFAC-7.5-30	7.5	330	6750	30	37	525/7	236250	2.5	2.5
VPSFAC-10-10	10	415	9000	10	28	1370/6	891000	4	4
VPSFAC-10-20	10	415	9000	20	28	1150/6	441000	4	4
VPSFAC-10-30	10	415	9000	30	37	678/7	324000	2.5	2.5



SOLAR DC BOREWELL SUBMERSIBLE PUMP-SET

Model	HP	Voltage	Power (Watt)	Head (M)	Shut off Head (M)	LPMA	Discharge (LPD)	Motor Size	Pump Size	Delivery Size	Type of Motor Oil fill / Water Fill
VPSMDC-01-30	1	50	900	30	45	55	20000	V4	V4	1.25	OF & WF
VPSMDC-01-60	1	50	900	60	90	30	10000	V4	V4	1.25	OF & WF
VPSMDC-01-90	1	50	900	90	120	15	5000	V4	V4	1.25	OF & WF
VPSMDC-02-30	2	90	1800	30	45	210	68400	V4	V4	2.00	OF & WF
VPSMDC-02-60	2	90	1800	60	90	60	20000	V4	V4	1.25	OF & WF
VPSMDC-02-90	2	90	1800	90	120	35	12000	V4	V4	1.25	OF & WF
VPSMDC-03-30	3	160	3000	30	45	290	126500	V4	V6	2.5	OF & WF
VPSMDC-03-50	3	160	3000	50	70	170	75800	V4	V4	2	OF & WF
VPSMDC-03-70	3	160	3000	70	100	120	46000	V4	V4	2	OF & WF
VPSMDC-05-30	5	240	4800	30	45	510	200000	V4	V6	3	OF & WF
VPSMDC-05-50	5	240	4800	50	70	280	118700	V4	V6	2.5	OF & WF
VPSMDC-05-70	5	240	4800	70	100	185	85000	V4	V4	2	OF & WF
VPSMDC-05-100	5	240	4800	100	150	140	56000	V4	V4	2	OF & WF
VPSMDC-7.5-30	7.5	330	6750	30	45	700	277000	V4	V6	4	OF & WF
VPSMDC-7.5-50	7.5	330	6750	50	100	340	171000	V4	V6	2.5	OF & WF
VPSMDC-7.5-70	7.5	330	6750	70	100	296	125200	V4	V6	2.5	OF & WF
VPSMDC-7.5-100	7.5	330	6750	100	150	180	86200	V4	V4	2	OF & WF
VPSMDC-10-30	10	415	9000	30	45	850	345000	V4	V6	4	OF & WF
VPSMDC-10-50	10	415	9000	50	70	550	249000	V4	V6	3	OF & WF
VPSMDC-10-70	10	415	9000	70	100	335	162500	V4	V6	2.5	OF & WF
VPSMDC-10-100	10	415	9000	100	150	270	114000	V4	V6	2.5	OF & WF

SOLAR DC SURFACE PUMP-SET

Model	HP	Voltage	Power (Watt)	Head (M)	Shut off Head (M)	LPMA	Discharge (LPD)	Suction Size	Delivery Size
VPSFDC-01-10	1	50	900	10	12	208/7	99000	2	2
VPSFDC-02-10	2	90	1800	10	17	470/7	198000	3	3
VPSFDC-03-10	3	140	2700	10	13	6650/7	297000	4	4
VPSFDC-03-10	3	140	2700	10	17	565/7	297000	3	3
VPSFDC-03-20	3	140	2700	20	27	350/7	148500	2.5	2
VPSFDC-05-10	5	240	4800	10	21	1216/6	528000	4	4
VPSFDC-05-20	5	240	4800	20	34	270/7	264000	2.5	2
VPSFDC-05-30	5	240	4800	30	37	405/7	182400	2.5	2
VPSFDC-7.5-10	7.5	330	6750	10	28	1260/6	742500	4	4
VPSFDC-7.5-20	7.5	330	6750	20	28	875/6	371250	4	4
VPSFDC-7.5-30	7.5	330	6750	30	37	525/7	256500	2.5	2.5
VPSFDC-10-10	10	415	9000	10	28	1370/6	990000	4	4
VPSFDC-10-20	10	415	9000	20	28	1150/6	342000	4	4
VPSFDC-10-30	10	415	9000	30	37	678/7	495000	2.5	2.5

SOLAR PUMP CONTROLLER

TECHNICAL SPECIFICATIONS

Capacity of Solar Pump Controller	1 HP	2 HP	3 HP	5 HP	7.5 HP	10 HP
Contoller Topology	VFD MPPT					
Switching Elements	IGBT					
Input DC Power (KW)	900-1200	1800	3000	4800	6750	9000
Maximum Input DC Volt	150-180	380	450	800	800	800
Output Volt	70-110	160	230	380	300	380
Output Amp	10	10	10	10	17	17
MPPT RANGE	70-160	180-250	250-450	350-600	290-600	350-600
MPPT Efficiency	99%					
OUTPUT AC	3 phase					
Cooling Method	Fan and natural cooling					
Protection Rating	IP 54/65					
Environmental Tempurature	-10° to 50° C					
Display	LED					

ALL SAFTY PROTECTION AVAILBLE

Dry run & no load protection

Surge/Lightning protection

Reverse polarity protection with LED indicator

Short circuit protection

Input PV over current protection

Excess load cut-off

Over-temperature cut-off

DC isolator switch (up to 10 HP)

Input DC fuse protection with LED indicator

Input PV over-voltage protection

Protection against phase imbalance

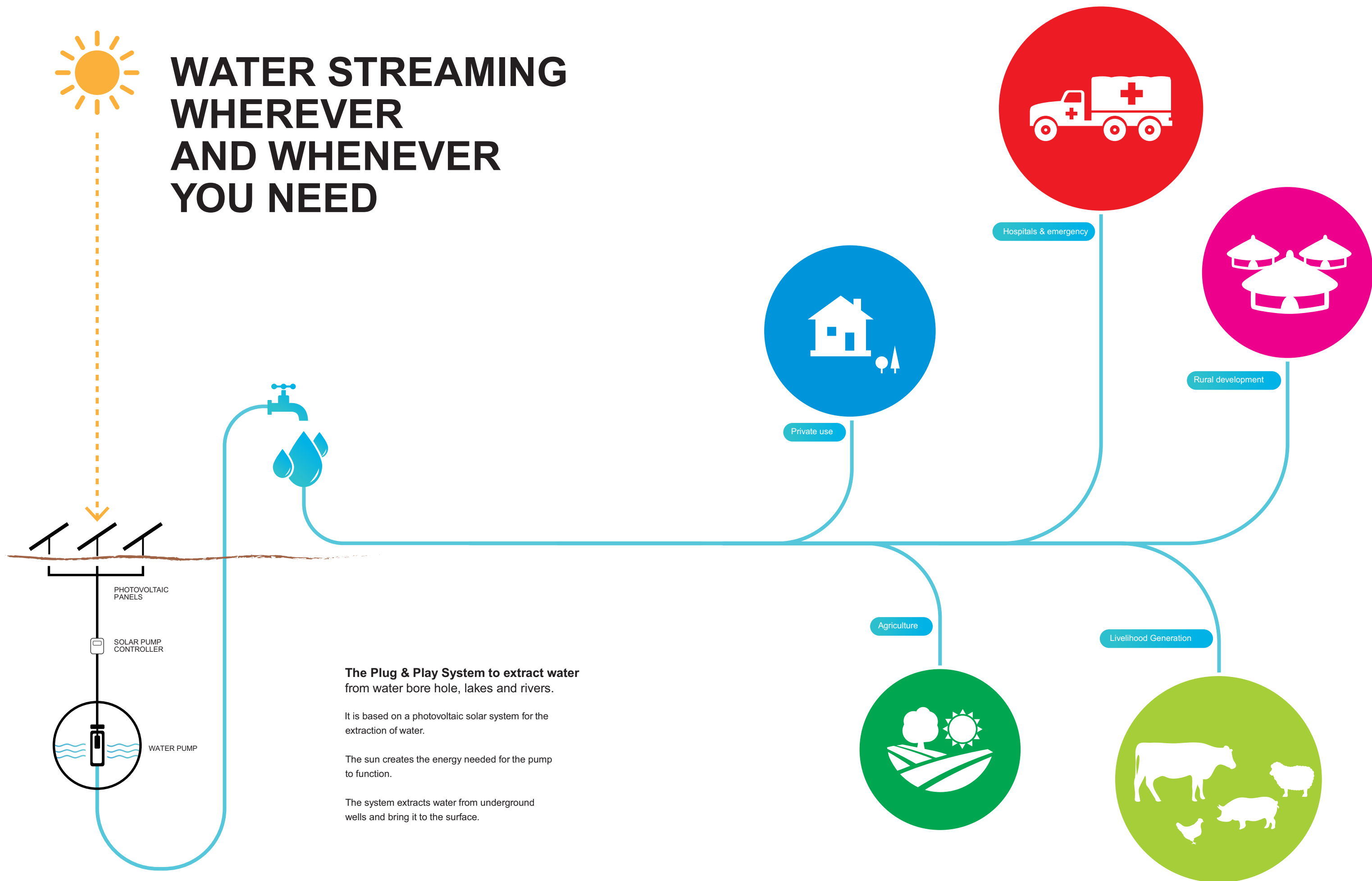
LED indicator for system ON, fault and remote monitoring

Note :

01. Above all parameters is declared as per hot profile of MNRE guidelines (This is lowest possible performance which declar
02. The Design and manufacturing of **SAHAJ SOLAR LIMITED** 's products are subject to constant improvement.
03. The product supplied may differ in some details from specifications illustrations given in this booklet, Kindly contact nearest branc office for proper model selection for your application.



WATER STREAMING WHEREVER AND WHENEVER YOU NEED



PROJECT



MORE WATER IN
LESS **ELECTRICITY**
#ChallengeAccepted



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