



SKY LIVE ENERGY

Everyday is **SUN DAY**

www.skyliveenergy.com

SOLAR WATER PUMP SYSTEM





SKY LIVE ENERGY SOLAR PUMPS

- Skylive Energy solar pumps offer incredible features coupled with excellent performance, thus making a distinctive mark in the solar pump market.
- Ranging from 1 hp- 50 hp, we offer Solar Submersible Pump, Solar Surface or Mono-block pump, and Solar Open-well Pump. We also offer hybrid solar pumps.
- Skylive Energy has always been a pioneer in state-of-the-art technology which helps in producing highly energy-efficient, reliable, and durable solar pumps.

APPLICATIONS

- Flood irrigation of small fields
- Drip irrigation for farms
- Cattle watering
- Water supply for small villages, schools, hospitals and homes



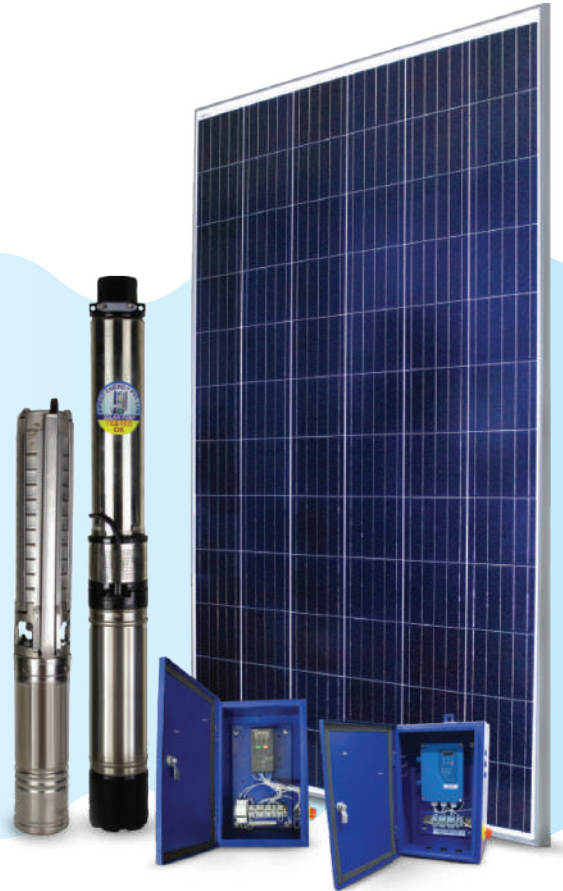
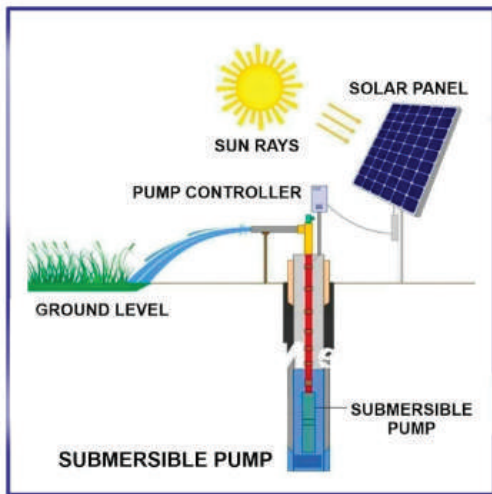


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SUBMERSIBLEPUMP

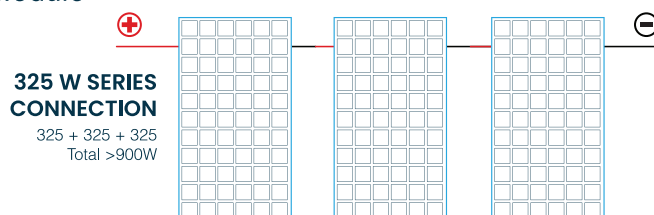
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1 hp Solar Submersible Pump System



hp	kW	VOLTAGE	OUTER DIA. (mm)	CABLE SIZE (sq. mm)	SOLAR MODULE ARRAY
1(BLDC)	0.75	72	95	1 x 3 x 2.5	325 W x 3 Nos. 3 Panels in Series
1	0.75	80	95	1 x 3 x 2.5	325 W x 3 Nos. 3 Panels in Series
1	0.75	110	95	1 x 3 x 2.5	325 W x 4 Nos. 4 Panels in Series
1	0.75	160	95	1 x 3 x 2.5	325 W* x 3 Nos. 3 Panels in Series

* Special design of Solar Module





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SUBMERSIBLEPUMP

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Submersible Pump

PUMP SHAFT	SS 410
SUCTION BRACKET	CAST IRON
PUMP HARDWARE	SS 304
IMPELLER	NORYL/SS
IMPELLER TYPE	RADIAL
STAGE CASTING	NORYL/SS
PUMP JACKET	SS
PUMP BEARING BUSH	LEADED BRONZE

Submersible Motor

RPM	2800
MOTOR SHAFT	SS 410
MOTOR BEARING BUSH	LTB 5 GRADE
THRUST BEARING	SS 410
LOWER & UPPER HOUSING	CAST IRON/SS
STATOR SHELL	SS
WINDING WIRE	3 Ø COPPER
MOTOR HARDWARE	SS 304

Discharge Chart

hp	Voltage	Ampere (I _m)	Shut off Head (m)	Head (m)				
				LPM				
1 (BLDC)	72	8A	120	30	50	60	70	90
				55	35	30	20	15
1	80	8A	60	20	30	40	50	60
				80	60	40	20	0
1	160	4A	65	20	30	40	50	60
				100	70	45	30	15

^ All data mentioned here are at 50 Hz, it may vary according to various Environmental Conditions





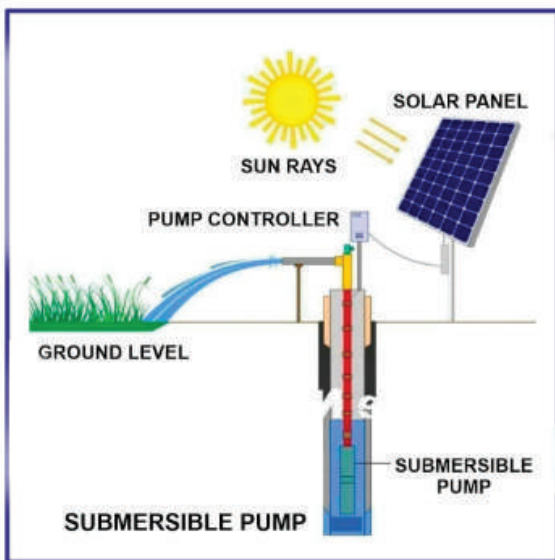
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SUBMERSIBLEPUMP

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2 & 3 hp Solar Submersible Pump System



hp	kW	VOLTAGE	OUTER DIA. (mm)	CABLE SIZE (sq. mm)	SOLAR MODULE ARRAY
2	1.5	160	95	1 x 3 x 2.5	325 W x 6 Nos. 6 Panels in Series
3	2.2	230	95	1 x 3 x 2.5	325 W x 9 Nos. 9 Panels in Series



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SUBMERSIBLEPUMP

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Submersible Pump

PUMP SHAFT	SS 410
SUCTION BRACKET	CAST IRON
PUMP HARDWARE	SS 304
IMPELLER	NORYL/SS
IMPELLER TYPE	RADIAL
STAGE CASTING	NORYL/SS
PUMP JACKET	SS
PUMP BEARING BUSH	LEADED BRONZE

Submersible Motor

RPM	2800
MOTOR SHAFT	SS 410
MOTOR BEARING BUSH	LTB 5 GRADE
THRUST BEARING	SS 410
LOWER & UPPER HOUSING	CAST IRON/SS
STATOR SHELL	SS
WINDING WIRE	3 Φ COPPER
MOTOR HARDWARE	SS 304

Discharge Chart

hp	Voltage	Ampere (I _m)	Shut off Head (m)	Head (m)				
				LPM				
2	160	8A	120	30	50	70	90	100
				150	90	60	40	30
3	230	9A	130	30	50	70	90	110
				230	145	100	65	40

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SUBMERSIBLEPUMP

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5 to 25 hp Solar Submersible Pump System



hp	kW	VOLTAGE	OUTER DIA. (mm)	CABLE SIZE (sq. mm)	SOLAR MODULE ARRAY
5	3.7	380	142	1 x 3 x 2.5	325 W x 15 Nos. 15 Panels in Series
7.5	5.5	300	142	1 x 3 x 4	325 W x 24 Nos. (12 Panels in Series) x 2 Strings
10	7.5	380	142	1 x 3 x 4	325 W x 30 Nos. (15 Panels in Series) x 2 Strings
15	11	380	142	1 x 3 x 6	325 W x 45 Nos. (15 Panels in Series) x 3 Strings
20	15	380	142	1 x 3 x 10	325 W x 60 Nos. (15 Panels in Series) x 4 Strings
25	18.7	380	142	1 x 3 x 10	325 W x 75 Nos. (15 Panels in Series) x 5 Strings



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Submersible Pump

PUMP SHAFT	SS 410
SUCTION BRACKET	CAST IRON
PUMP HARDWARE	SS 304
IMPELLER	SS 304
IMPELLER TYPE	RADIAL/MIXED
STAGE CASTING	CAST IRON
PUMP JACKET	CAST IRON
PUMP BEARING BUSH	LEADED BRONZE

Submersible Motor

RPM	2800
MOTOR SHAFT	SS 410
MOTOR BEARING BUSH	LTB 5 GRADE
THRUST BEARING	SS 410
LOWER & UPPER HOUSING	CAST IRON/SS
STATOR SHELL	SS
WINDING WIRE	3 Φ COPPER
MOTOR HARDWARE	SS 304

Discharge Chart

hp	Voltage	Ampere (I _m)	Shut off Head (m)	Head (m)					
				LPM					
5	380	9A	150	30	50	70	90	110	130
				470	240	160	120	90	60
7.5	300	17A	170	30	50	70	110	130	150
				700	420	280	165	130	100
10	380	17A	240	30	50	70	130	190	220
				1000	580	380	170	95	65
15	380	24A	300	50	80	110	180	220	280
				900	450	320	200	160	100
20	380	32A	330	50	70	100	170	250	300
				1360	900	720	370	274	230
25	380	38A	350	50	70	100	150	200	300
				1500	1200	815	440	390	275

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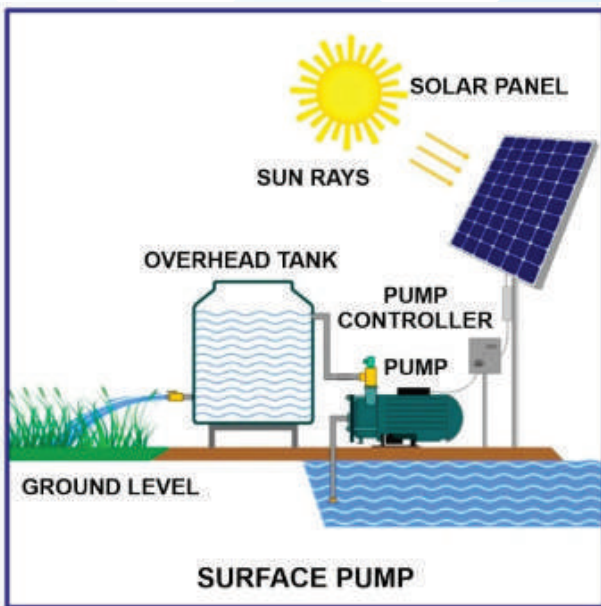


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#**SURFACEPUMP**
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Monoblock Pump System



hp	kW	VOLTAGE	CABLE SIZE (sq. mm)	SOLAR MODULE ARRAY
1	0.75	160	1 x 3 x 2.5	325 W* x 3 Nos. 3 Panels in Series
2	1.5	160	1 x 3 x 2.5	325 W x 6 Nos. 6 Panels in Series
3	2.2	230	1 x 3 x 2.5	325 W x 9 Nos. 9 Panels in Series
5	3.7	380	1 x 3 x 2.5	325 W x 15 Nos. 15 Panels in Series
7.5	5.5	300	1 x 3 x 4	325 W x 24 Nos. (12 Panels in Series) x 2 Strings
10	7.5	380	1 x 3 x 4	325 W x 30 Nos. (15 Panels in Series) x 2 Strings

* Special design of Solar Module



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SURFACEPUMP
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Monoblock Pump

RPM	2800
Impeller	Cast Iron FG200
Pump Casting	Cast Iron
Mechanical Seal	Rubber
Pump Shaft	SS 410
Suction Bracket	Cast Iron
Pump Hardware	SS 410
Motor Shaft	SS 410
Motor Bearing Type	Ball Bearing
Stator Shell	Cast Iron
Winding Wire	Copper
Motor Hardware	SS 304



Discharge Chart

hp	Voltage	Ampere (I _m)	Shut off Head (m)	Head (m) LPM
1	160	4A	12	7 275
2	160	8A	12	7 550
3	230	9A	12	7 825
5	380	8A	17	12 730
7.5	300	17A	19	12 925
10	380	17A	20	15 1350

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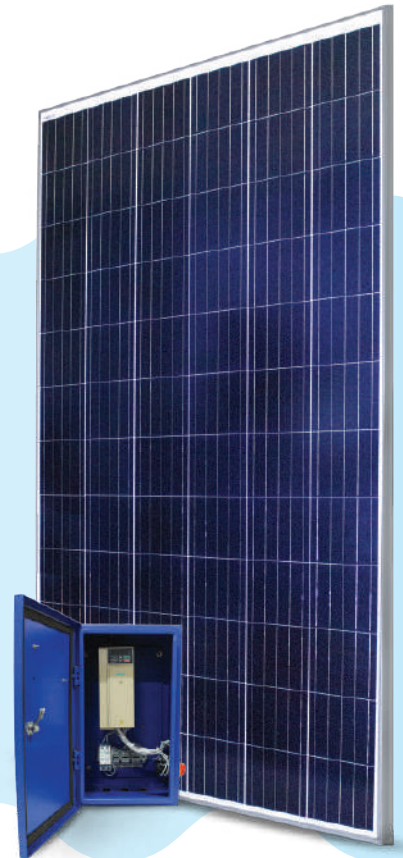
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OPENWELLPUMP

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Openwell Pump System



hp	kW	VOLTAGE	CABLE SIZE (sq. mm)	SOLAR MODULE ARRAY
3	2.2	230	1 x 3 x 2.5	325 W x 9 Nos. 9 Panels in Series
5	3.7	380	1 x 3 x 2.5	325 W x 15 Nos. 15 Panels in Series
7.5	5.5	300	1 x 3 x 4	325 W x 24 Nos. (12 Panels in Series) x 2 Strings
10	7.5	380	1 x 3 x 4	325 W x 32 Nos. (16 Panels in Series) x 2 Strings



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OPENWELLPUMP

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Open Well Pump

RPM	2800
Impeller	Cast Iron FG200
Pump Casting	Mild Steel
Mechanical Seal	Mild Steel
Pump Shaft	SS 410
Suction Bracket	Cast Iron
Pump Hardware	SS 410
Motor Shaft	SS 410
Motor Bearing Type	Ball Bearing
Stator Shell	Mild Steel
Winding Wire	Copper
Motor Hardware	SS 304



Discharge Chart

hp	Voltage	Ampere (I _m)	Shut off Head (m)	Head (m)
				LPM
3	230	9A	24	8 750
5	380	8A	28	15 800
7.5	300	17A	28	15 1400
10	380	17A	35	22 1300

^ All data mentioned here are at 50 Hz, it may vary according to various Environmental Conditions



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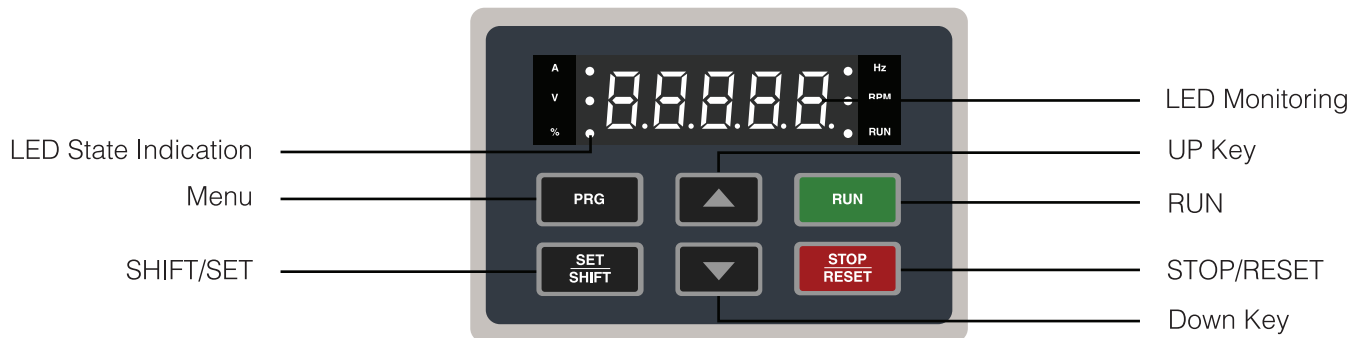
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#SOLAR **CONTROLLER**

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CONTROLLER TECHNICAL SPECIFICATIONS

SOLAR PUMP INVERTER POWER (kW)	PUMP		MAXIMUM INPUT DC VOLTAGE (V)	TOTAL Voc (V) RANGE OF PANELS	RATED OUTPUT CURRENT (A)	OUTPUT FREQUENCY RANGE (Hz)	RECOMMENDED PUMP (HP)
	RATED POWER (kW)	RATED VOLTAGE (V)					
0.75	0.75	160	400	175-380	4.2A	0-600	1 HP
2.2	1.1	110	400	175-380	9.5A	0-600	1.5 HP
2.2	1.5	160	400	175-420	9.5A	0-600	2 HP
2.2	2.2	230	400	175-420	9.5A	0-600	3 HP
4	3.7	380	800	620-750	10A	0-600	5 HP
7.5	5.5	300	800	620-750	17A	0-600	7.5 HP
7.5	7.5	380	800	620-750	17A	0-600	10 HP
11	11	380	800	620-750	25A	0-600	15 HP
15	15	380	800	620-750	32A	0-600	20 HP
18	18	380	800	620-750	40A	0-600	25 HP



- The recommended total Vmp of the Solar Panel shall be 1.15 times of inverter bus voltage.
- For example, the recommended total power of the Solar Panel for a 7.5kW water pump system: $7500 \times 1.2 = 9000W$.
- The maximum withstanding voltage of Type I model products is 400VDC, and of Type II model products is 780VDC.



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DISCHARGECHART

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SOLAR WATER PUMP DISCHARGE REPORT

hp	kW	Voltage	Head In (m)	LPM	LPD	Delivery Size
1	0.75kW	80V	20	50	18000	1.25"
			30	30	10800	1"
			40	10	3600	1"
1	0.75kW	160V	20	100	36000	1.25"
			30	70	25200	1.25"
			40	45	16200	1"
			50	30	10800	1"
			60	15	5400	1"
1	0.75kW	110V	20	80	28800	1.25"
			30	60	21600	1.25"
			40	40	14400	1"
			50	20	7200	1"
2	1.5kW	160V	30	150	54000	1.5"
			50	90	32400	1.5"
			70	60	21600	1.25"
			100	30	10800	1.25"
3	2.2kW	230V	30	230	82800	2"
			50	145	52200	1.5"
			70	100	36000	1.5"
			110	40	14400	1.5"
5	3.75kW	380V	30	470	169200	3"
			50	240	86400	2"
			90	120	43200	1.5"
			110	90	32400	1.5"
			130	60	21600	1.5"
7.5	5.5kW	300V	30	700	252000	3"
			50	420	151200	2.5"
			90	200	72000	2"
			110	165	59400	2"
			130	130	46800	2"
			150	100	36000	2"
10	7.5kW	380V	30	1000	360000	3"
			50	580	208800	3"
			90	280	100800	2.5"
			130	170	61200	2"
			150	150	54000	2"
15	11kW	380V	220	65	23400	2"
			50	900	324000	3"
			80	450	162000	3"
			110	320	115200	3"
			180	200	72000	2"
			220	160	57600	2"
			280	130	46800	2"
			340	100	36000	2"



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