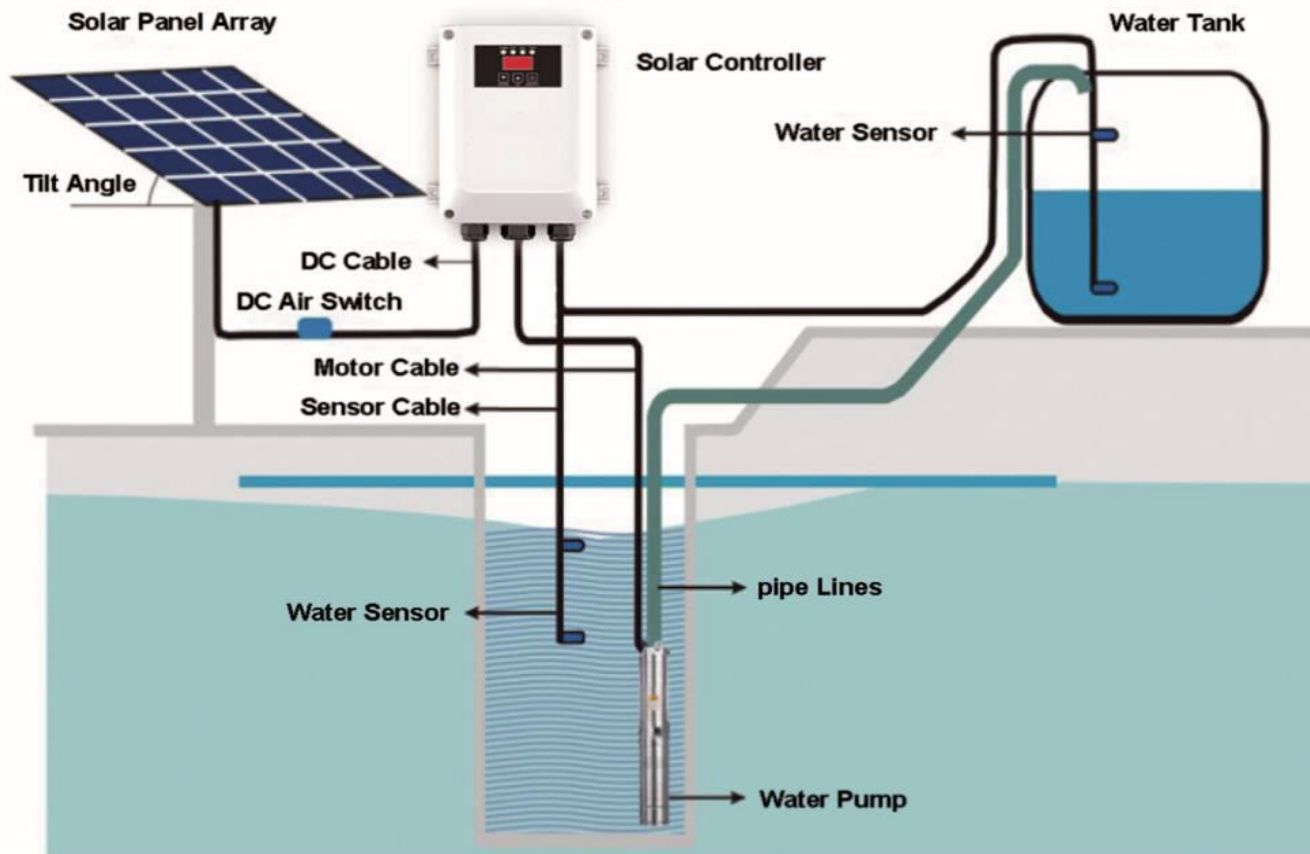


DC BRUSHLESS SOLAR SUBMERSIBLE PUMPS

Working Mode Diagram:




► Product Features:

- DC Brushless Solar Submersible Pumps
- Stainless Steel 304/316 Body
- DC Brushless Motor
- 100% Pure Copper Motor
- Cooling by Food Grade Oil
- Digital Display, MPPT Solar Water Pump Controller
- Controller Function: Low Voltage Protection, High Voltage Protection, Over-current protection, Water Shortage Shutdown Protection, Reverse Polarity Protection
- Warranty: Water Pumps 3 years, controller 1 year
- Working Head: 10-500 M,
- Working Flow: 1.0-150m³/h.
- Working Temperature: -20-50°C

► Lifespan:

- Solar Panel: 25 years
- Controller: > 5 years
- Water Pump: > 5 years

► DC Brushless Solar Screw Pump

Picture	Model	Impeller	Voltage	Pump Power		Max Flow	Max Head	Outlet	Outer Diameter	Solar Panel
			(V)	(HP)	(W)	(m ³ /h)	(M)	(Inch)	(mm)	(W)
	BST-3ZS1.8/80-D24/210	Screw	24	0.30	210	1.8	80	3/4"	76	330
	BST-3ZS1.8/120-D48/500	Screw	48	0.75	500	1.8	120	3/4"	76	800
	BST-3ZS2.3/120-D72/900	Screw	72	1.2	900	2.3	120	3/4"	76	1200
	BST-4ZS3.6/80-D48/750	Screw	48	1	750	3.6	80	1"	100	1100
	BST-4ZS4.2/110-D72/1300	Screw	72	1.75	1300	4.2	110	1"	100	1980


► **DC Brushless Centrifugal (POM) Pump**

► Pump Material

- Outlet: Copper
- Body: 304Stainless Steel
- Impeller: POM Plastic
- Bearing: NSK
- Motor: DC Brushless Motor

► MPPT Solar Water Pump Controller

- Low Voltage Protection
- High Voltage protection
- Over-current Protection
- Water Shortage Shutdown Protection
- Reverse Polarity Protection

Picture	Model	Impeller	Voltage	Pump Power		Max Flow	Max Head	Outlet	Outer Diameter	Solar Panel
			(V)	(HP)	(W)	(m ³ /h)	(M)	(Inch)	(mm)	(W)
	BST-3ZPC4.2/98-D72/750	POM Plastic	72	1.0	750	4.2	98	1"	76	990
	BST-4ZPC6.5/95-D72/1100	POM Plastic	72	1.5	1100	6.5	95	1.25"	100	1650
	BST-4ZPC9/85-D72/1500	POM Plastic	72	2	1500	9	85	1.5	100	2475
	BST-4ZPC14/60-D72/1300	POM Plastic	72	1.75	1300	14	60	2"	100	1980


► **DC Brushless Centrifugal Pump (Stainless Steel Impeller Pump)**

► Pump Material

- Outlet: 304 Stainless Steel
- Body: 304 Stainless Steel
- Impeller: 304 Stainless Steel
- Bearing: NSK
- Motor: DC Brushless Motor

► MPPT Solar Energy Pump Controller

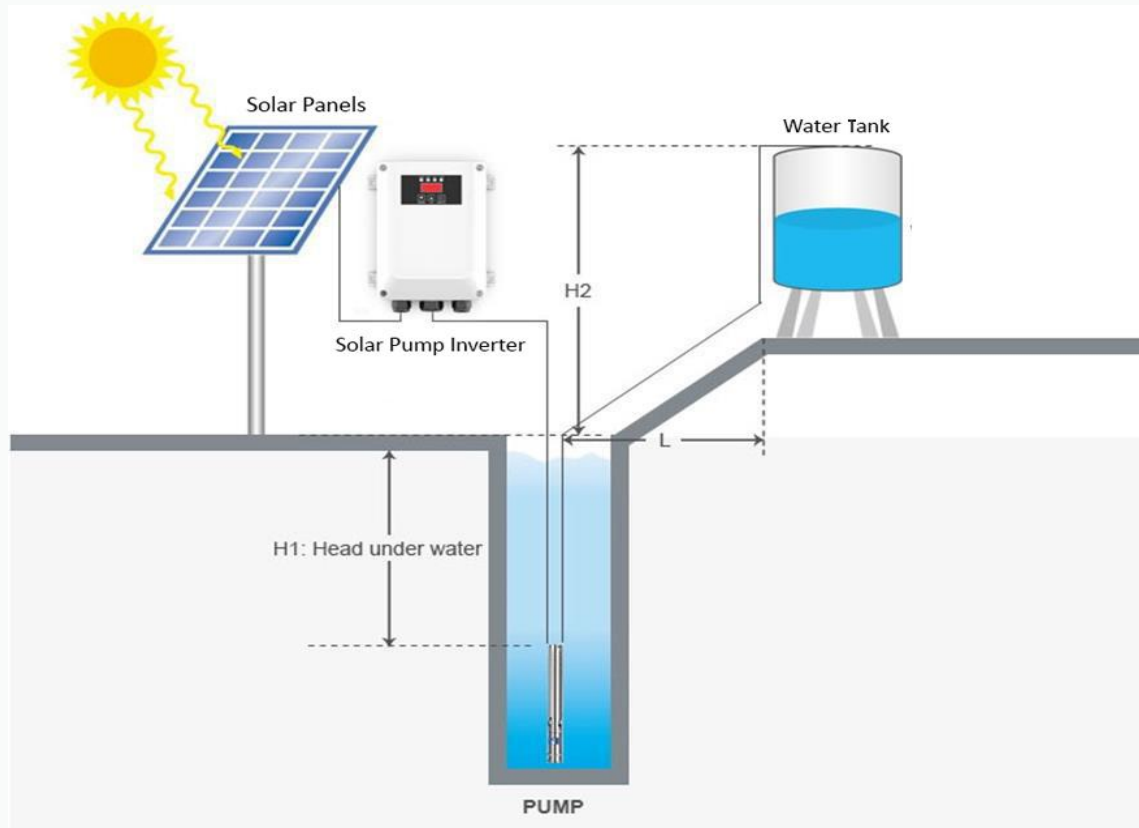
- Low Voltage Protection
- High Voltage Protection
- Over-current Protection
- Water Shortage Shutdown Protection
- Reverse Polarity Protection

Picture	Model	Impeller type	Voltage	Pump Power		Max Flow	Max Head	Outlet	Outer Diameter	Solar Panel
			(V)	(HP)	(W)	(m ³ /h)	(M)	(Inch)	(mm)	(W)
	BST-4ZSC5/230-D216/2200	SUS 304	216	3	2200	5.0	230	1.25"	100	3200
	BST-4ZSC13/148-D216/3700	SUS 304	216	5	3700	13	148	2"	100	6050
	BST-4ZSC25/125-D380/5500	SUS 304	380	7.5	5500	25	125	2"	100	9000
	BST-6ZSC28/26-D72/1300	SUS 304	72	1.75	1300	28	26	3"	150	1980
	BST-6ZSC33/100-D380/7500	SUS 304	380	10	7500	33	100	3"	150	12000
	BST-6ZSC49/129-D380/9200	SUS 304	380	12.5	9200	49	129	3"	150	14850
	BST-6ZSC68/93-D380/11000	SUS 304	380	15	11000	68	93	3"/4"	150	19800



Solar Water Pump Selection

Working Mode Diagram:



How to select the pump type?

- 1) Water source: river, pond or well? If the source is a well (diameter of the well __mm)
- 2) Flow requirement ? (__cubic meter/hour or __ton/hour or __ton/day)
- 3) Head H1 (vertical distance from well surface to pump installation position):__m
- 4) Head H2 (vertical distance from the well surface to the water tower):__m
- 5) Horizontal distance L (horizontal distance from the well to the water tower) __m
- 6) Total head distance = $H1+H2+L*10\%$

Applications and Cases:

International Project Case



1300W solar DC Pump



1.5HP, 2HP solar DC pump



210W/500W solar pump



solar pump in Africa



2.2kw solar DC Pump



4" solar pump



18.5KW solar pump system

BST- 3 Z S 1.8 / 80- D24



BEST



Pump size



DC



Pump type

Screw



Flow



Head



Voltage

PC



POM plastic impeller

SC



Stainless steel impeller

/ 210



Popwer