

Nominal Flow	3.0 m ³ /hr @ 51 m
Flow Range	1.0 ~ 4.9 m ³ /hr
Head Range	24 ~ 80 m

Solar pumping System

Note:

SAMKING solar motor powers the new system for the supply of clean water based on the most widely available renewable energy, the sun. It is designed for easy use and requires no maintenance. It is the ideal solution for supplying water in remote areas, where the normal power supply of electricity from the power grid is inconsistent or completely unavailable

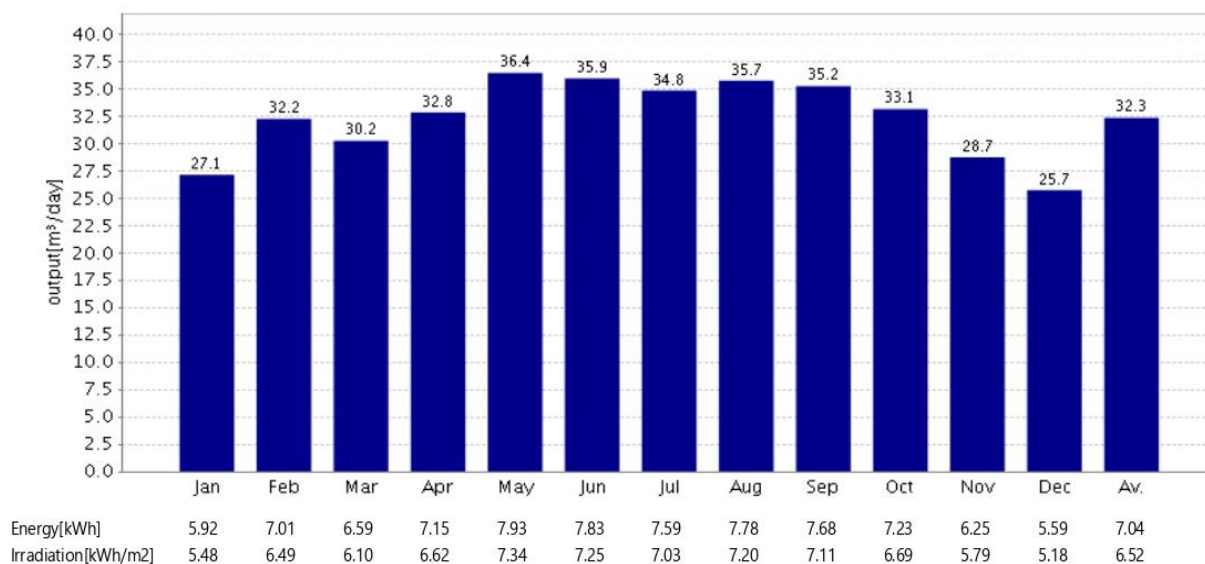
Parameter

Location:	United Arab Emirates;Du bai	Water Temp:	25°C		
Required daily output:	10m ³ /day	Dirt loss:	3%	Motor lenght:	50
Pipe type:	Plastic	Static Head:	10m	Pipe length:	20m

Products

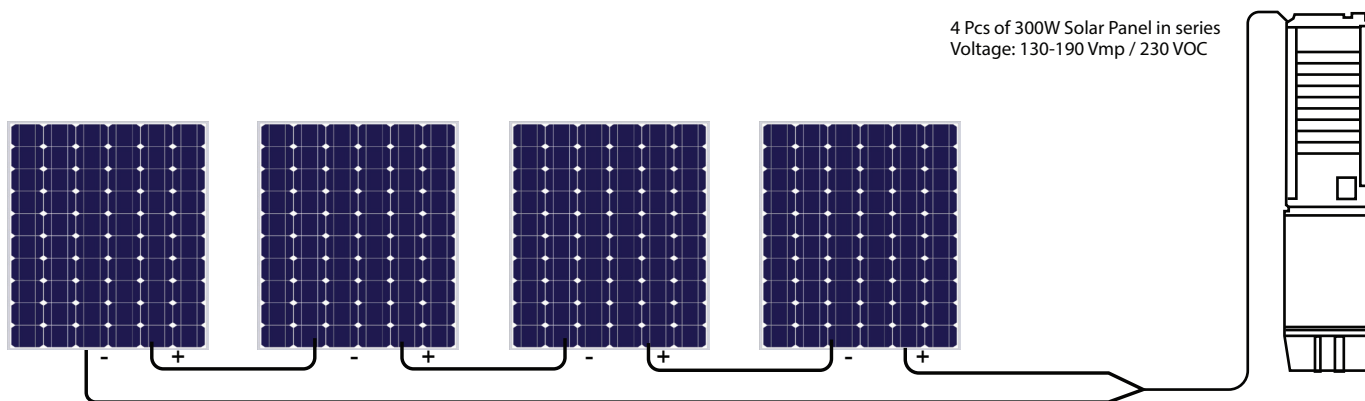
Submersible pump	1pc;4SPW3-8PA(1200W AC&DC)
Solar panel	4pc;1200Wp;300w ×4pcs
Motor cable	
Pipeline	20m;Pipeline
Accessories	

Daily output in average month (32.3) m³/day

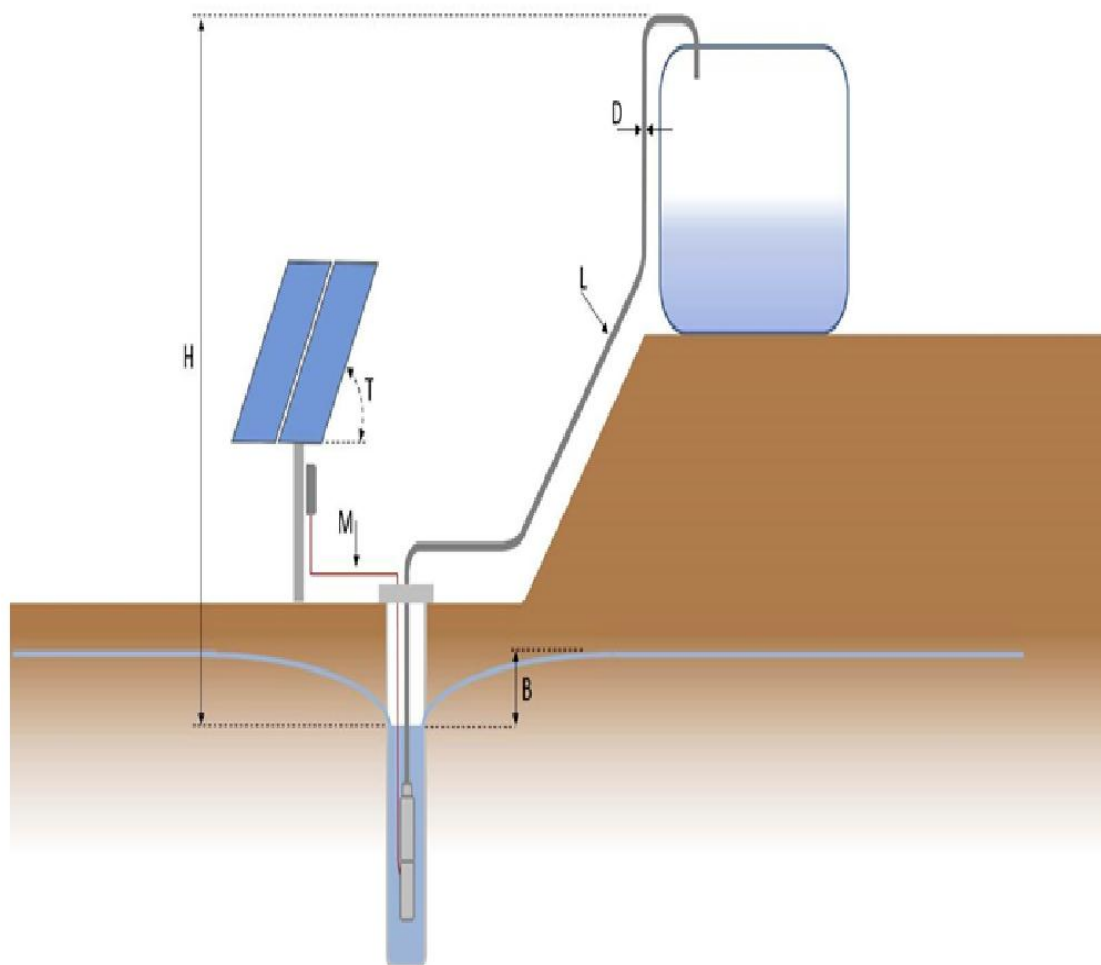


Solar Panel Wiring

4 Pcs of 300W Solar Panel in series
Voltage: 130-190 Vmp / 230 VOC

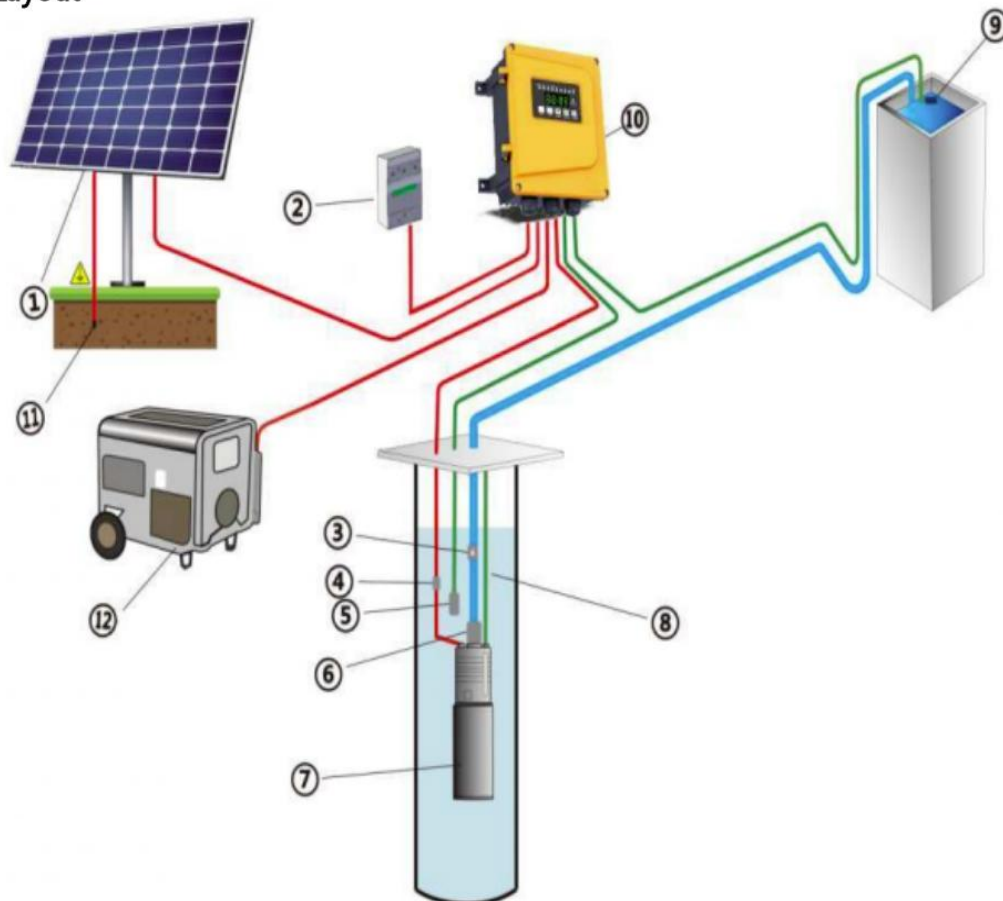


Sizing Layout



H (Static head):	Vertical height from the dynamic water level to the highest point of delivery.
B (Drawdown):	Lowering of water level depending on flow rate and recovery rate of the well.
D (Pipeline inner diameter):	
L (Pipe length):	Entire pipeline from the pump outlet to the point of delivery. Elbows and armatures must be added as an equivalent length of pipeline.
M (Motor cable):	The cable between controller and pump unit.
T (Tilt angle):	Angle of the PV generator surface from the horizontal plane.

System Layout



-
- 1、Solar Panel Array
 - 2、SPD(DC-600V), Surge Protection Device (Optional)
 - SPD(AC-275V), Surge Protection Device (Optional)
 - 3、Check valve (Optional)
 - 4、Wiring waterproof assembly
 - 5、The Low-Level Float (For Well ,Optional)
 - 6、Sacrificial Anode (Optional)
 - 7、Water Pump End and BLDC Motor
 - 8、Safety rope
 - 9、The High-Level Float (For Tank ,Optional)
 - 10、External controller
 - 11、Grounding pile (Optional)
 - 12、Generator (Single phase 220V)
-



4SPW3-8PA(1200W AC&DC)

Solar Submersible Pump System

System Overview

Head	max. 92m
Flow	max. 99L/min
Recommend Max input Power	max. 1 kW
Minimum well diameter	min 4 inch
Pump discharge	Rp 2
Efficiency Max	45%

Product advantage

- .Stainless steel Motor: AISI 304 (316 optional);
- .BLDC High Efficiency Motor;
- .External Controller;
- .Accpet both AC & DC
- .Voltage/Current/Power/RPM/Display;
- .Encapsulated water filled motor(No pollution risk);
- .Soft start running makes system's life longer;
- .Thrust bearing system;
- .Reverse protection(reverse + and - is fine);
- .Over load protection/over current protection/over power protection;
- .Voltage:60-380Vmp/450VOC;AC 150-240V 50Hz&60Hz
- .Dry protection(No additional float sensor required);

Technical Data

Controller 4SPW3-8PA(1200W AC&DC)

- .Controller Model3SPW-A-1200W
- .MPPT Efficiency Max.98%;
- .Voltage:60-380Vmp/450VOC;AC 150-240V 50Hz&60Hz;
- .Enclosure class:IP65;
- .Error report;
- .Losing-Phase protection;
- .Over temperature protection

Motor 3SPW-A(1200W AC&DC)

Voltage	AC 150-240V DC max.VOC 450V DC Vmp 60-380V
Current	max.AC 10A max.DC 10A
Motor Efficiency	max.85%
WaterTemp	max.40°C
Insulation class	F
Enclosure class	IP X8
Submersion	max.150m
Speed	500-4000

Pump End

- .Plastic impeller ;stainless steel shell;
- .Non-return valve;
- .Centrifugal pump.

Standards

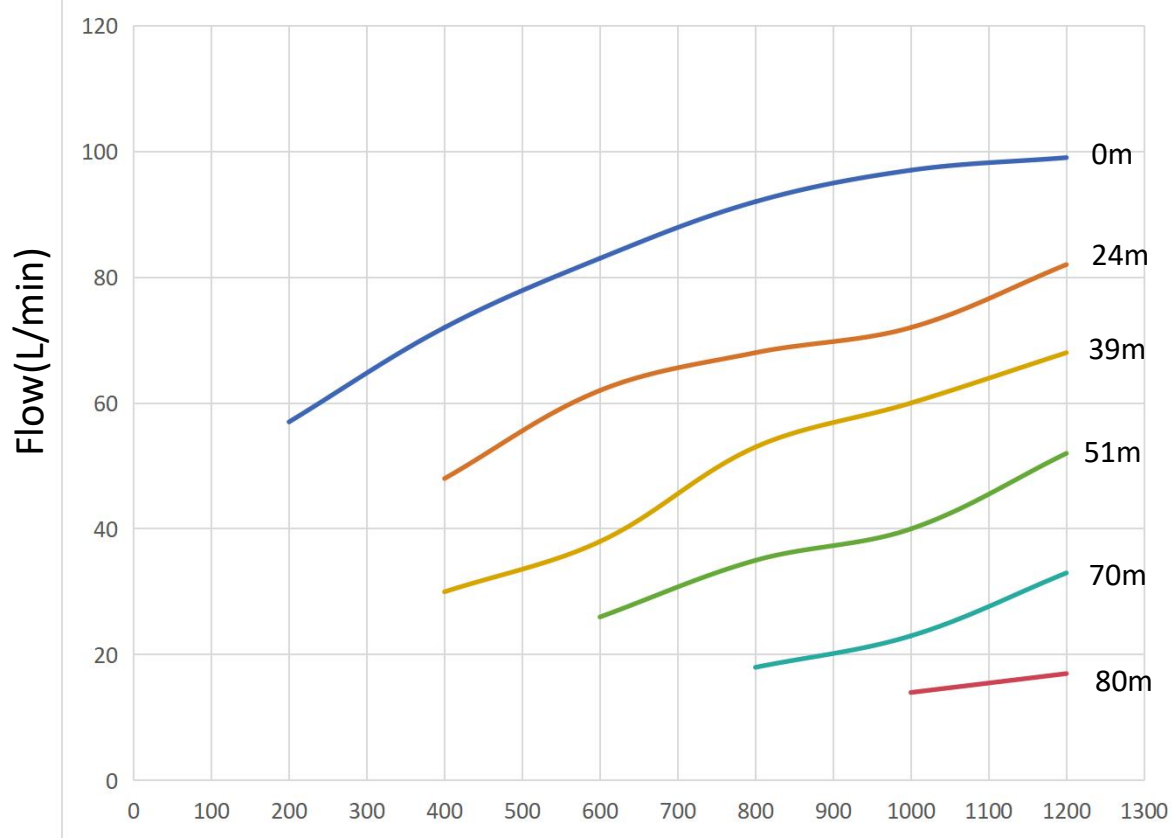


Note:

- *Accpet 2-10 PCS 340W panel best 3-5Pcs
- *The Controller is IP65 Rated however it is recommended that it is not mounted in direct sunlight;
- *VOC (V) Volts open circuit nothing connected;Vmp (V) Volts maximum power point under load;Exceeding limits may cause serious harm.

4SPW3-8PA 1HP

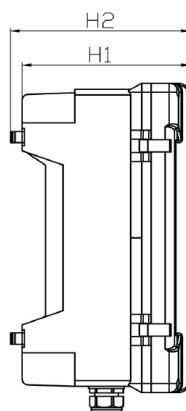
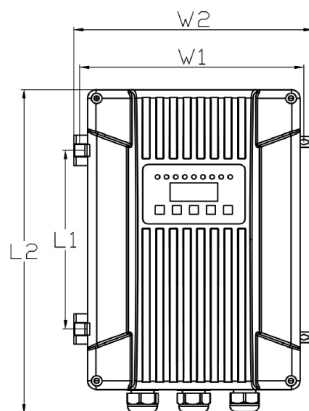
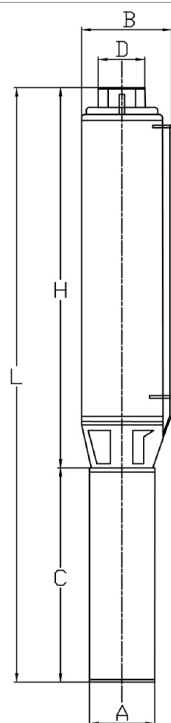
Flow max.99L/min; Head max.92m; BSP 2",Centrifugal pump (Plastic impeller)



HEAD (m)	INPUT POWER (WATTS)					
	200	400	600	800	1000	1200
	Flow (L/min)					
0	57	72	83	92	97	99
24		48	62	68	72	82
39		30	38	53	60	68
51			26	35	40	52
70				18	23	33
80					14	17

4SPW3-8P-A

Dimensions and Weights



Pump :

	A	B	C	H	L	D
Dimention (mm)	Ø76	99	205	450	655	2"

Controller :

	W1	W2	H1	H2	L1	L2
Dimention (mm)	193	209	140	155	153	231

	Weight (kg)
Pump Unit	7.7
Motor	5
Pump End	2.7
Pump Package Unit	8.7
Controller	1.8
Controller Package Unit	2.2

	Package Volume
Pump	11cm*11cm*75cm
Controller	28cm*24cm*17cm

The size and weight information may be changed, please confirm with the factory.