

# Solar pumping System

## Note:

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

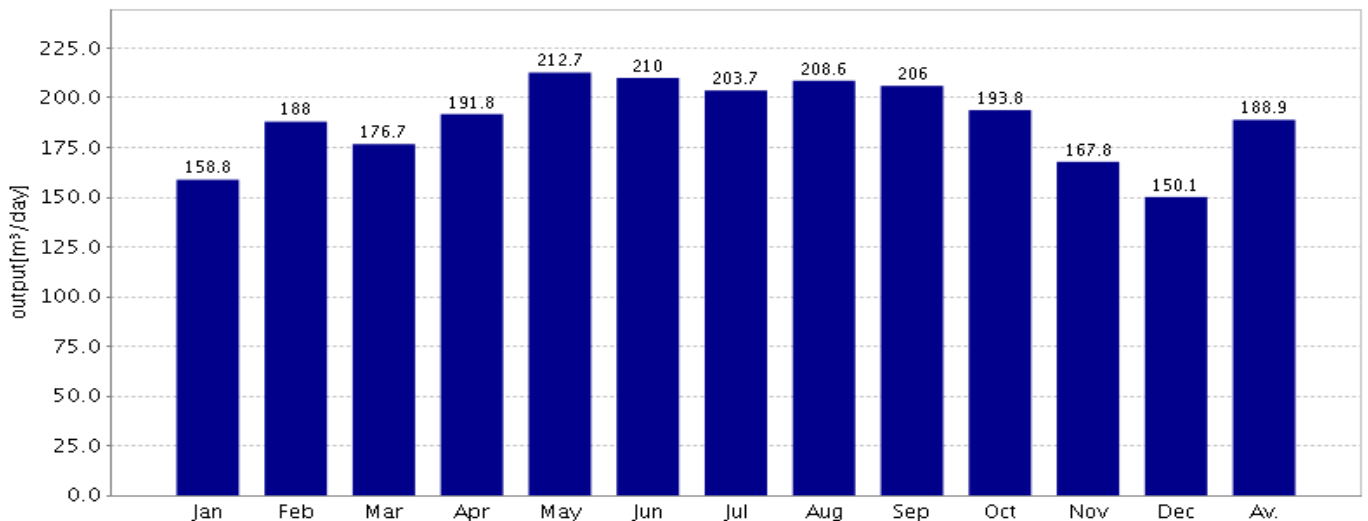
## Parameter

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

## Products

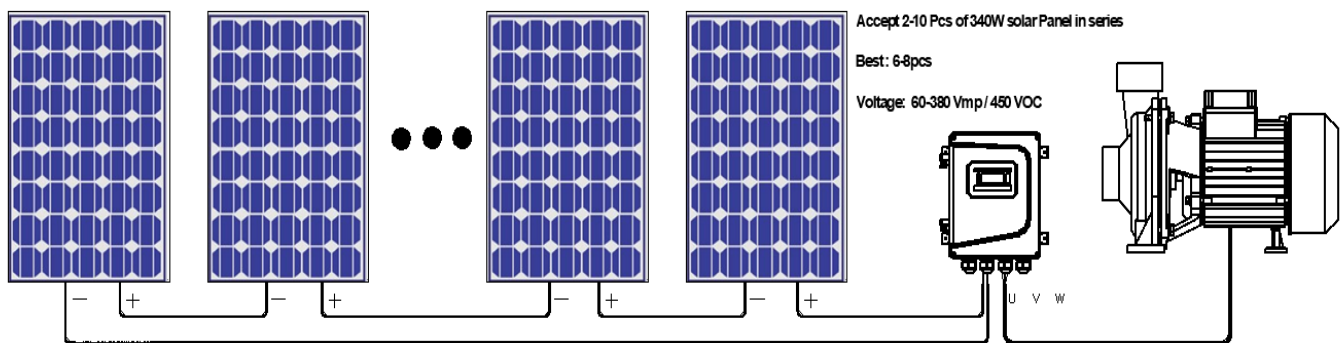
Submersible pump	1pc;SHF6B-2200W
Solar panel	7pc;2100Wp;300w ×7pcs
Motor cable	
Pipeline	20m;Pipeline
Accessories	

## Daily output in average month (188.9) m<sup>3</sup>/day



Energy[kWh]	10.36	12.27	11.53	12.51	13.87	13.70	13.29	13.61	13.44	12.64	10.94	9.79	12.32
Irradiation[kWh/m <sup>2</sup> ]	5.48	6.49	6.10	6.62	7.34	7.25	7.03	7.20	7.11	6.69	5.79	5.18	6.52

## Solar Panel Wiring



## SHF6B-2200W

### Solar Surface Pump System

#### System Overview

Head	max. 22m
Flow	max. 807L/min
Recommend Max input Power	max. 2.2 kW
Minimum well diameter	min inch
Pump discharge	Rp 3"*3"
Efficiency Max	50%

#### Product advantage

- .Wide voltage:60-380Vmp/450VOC
- .High efficiency BLDC motor
- .High efficiency MPPT and Vector control
- . External controller
- .MPPT Efficiency Max.99%
- .Display of voltage/ current/power etc
- .Soft start running makes the system's life longer
- .Dry protection
- .Reverse protection(reverse + and - is fine )
- .Lost Phase protection
- .Stall protection
- .Error display

#### Technical Data

##### Controller SHF6B-2200W

- .Controller external
- .Losing-Phase protection
- .Over-load/Over-current/Over-voltage/Over-power protection
- .Over temperature protection

##### Motor SHF6B-2200W

Voltage	DC max.VOC 450V DC Vmp 60-380V
Current	max.DC 10A
Motor Efficiency	max.85%
WaterTemp	max.40°C
Insulation class	F
Enclosure class	IP54
Speed	1000-4000

#### Pump End

- .Copper impeller
- .Cast iron housing

#### Standards



#### Note:

\*Accept 2-10 Pcs of 340W Solar Panels in Series best 5-7pcs

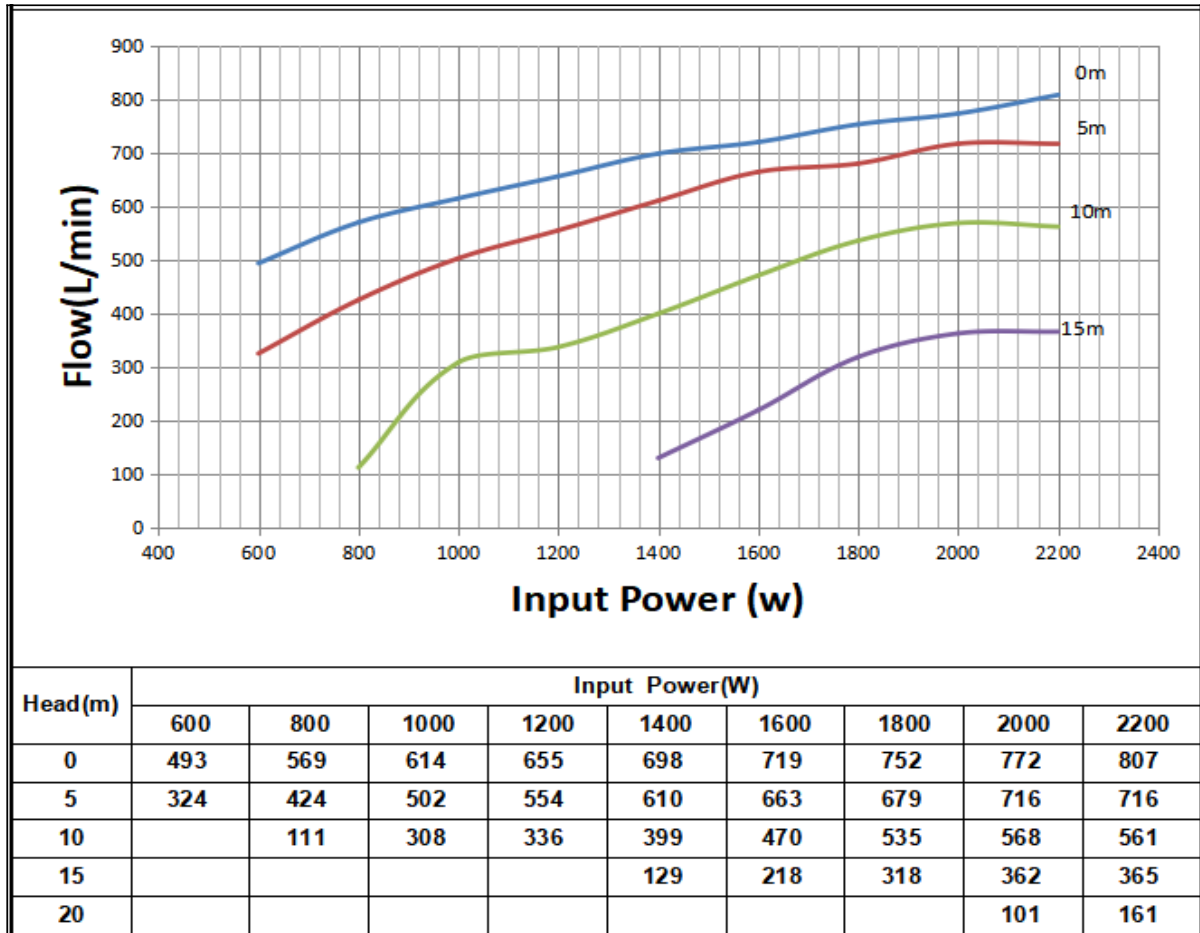
\*VOC (V) Volts open circuit nothing connected;Vmp (V) Volts maximum power point under load;Exceeding limits may cause serious harm or irreparable damage

\*The pump is IP54 Rated however it is recommended that it is not mounted in direct sunlight

## SHF6B-2200W

Solar Pumping project

Pump chart



## Dimensions and Weights

