Solar Water Treatment System

System introduction

Water is a pressing need in many areas of the world. The water scarcity needed to grow and process food, create energy, and serve industry for a continually growing population. The essence of global water scarcity is the geographic and temporal mismatch between freshwater demand and availability. The increasing population, improving



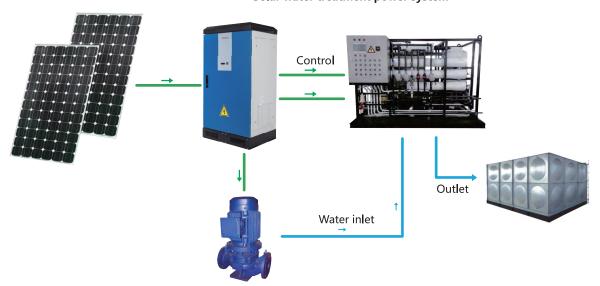
living standards, changing consumption patterns, and expansion of irrigated agriculture are the main driving forces for the rising global demand for water. One major source of obtainingusable water is water desalination.

Make full use of solar direct drive, solar pumping, group control, energy storage and RO filter technology. Through inverter technology, convert DC power from solar to drive AC pumps for lifting water and pumps in purify equipment directly, other loads are driven by solar energy storage system, realize through solar power to supply all energy for purify equipment, combine with requirements of purify equipment, add group control technology to optimize pumps operation. According to clients need, can add energy storage system for household electricity.

So

Solar + water treatment working principle and function

Solar water treatment power system



Solar Water Treatment System

System configuration

Solar brackish water purify system

Model	JN-WL2.5D	JN-WL5D	JN-WL8D	JN-WL10D	JN-WL50D	JN-WL100D				
Daily fresh water production (m3)	2.5	5	8	10	50	100				
Recommend PV input (kWp)	5	7.2	10	15	74	146				
MPPT voltage (Vmp)	460~800									
Raw water (TDS)	<=3000									
Fresh water (TDS)	<=300									
Operate temp.	<=100									
Energy storage(optional)	lithium iron batteries with 5kWh,10 kWh,15kWh									
Power supply	Grid, diesel generator.									

Daily fresh water production means per recommend PV array only according to 5kWh/m²/day solar radiation. If use grid, diesel or other power supply for 24 hours a day, fresh water production will be increased to max 5 times.

Solar seawater desalination system

Model	JN-WH1D	JN-WH2.5D	JN-WH5D	JN-WH10D	JN-WH50D	JN-WH100D	JN-WH200D			
Daily fresh water production (m3)	1	2.5	5	10	50	100	200			
Recommend PV input (kWp)	4	10	16	22	132	256	428			
MPPT voltage (Vmp)	460~800									
Raw water (TDS)	<=38000									
Fresh water (TDS)	<=300									
Operate temp.	5~55℃									
Energy storage(optional)	lithium iron batteries with 5kWh,10 kWh,15kWh									
Power supply	Grid, diesel generator.									

Daily fresh water production means per recommend PV array only according to 5kWh/m²/day solar radiation. If use grid, diesel or other power supply for 24 hours a day, fresh water production will be increased to max 5 times.



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