

Solar Water Treatment System

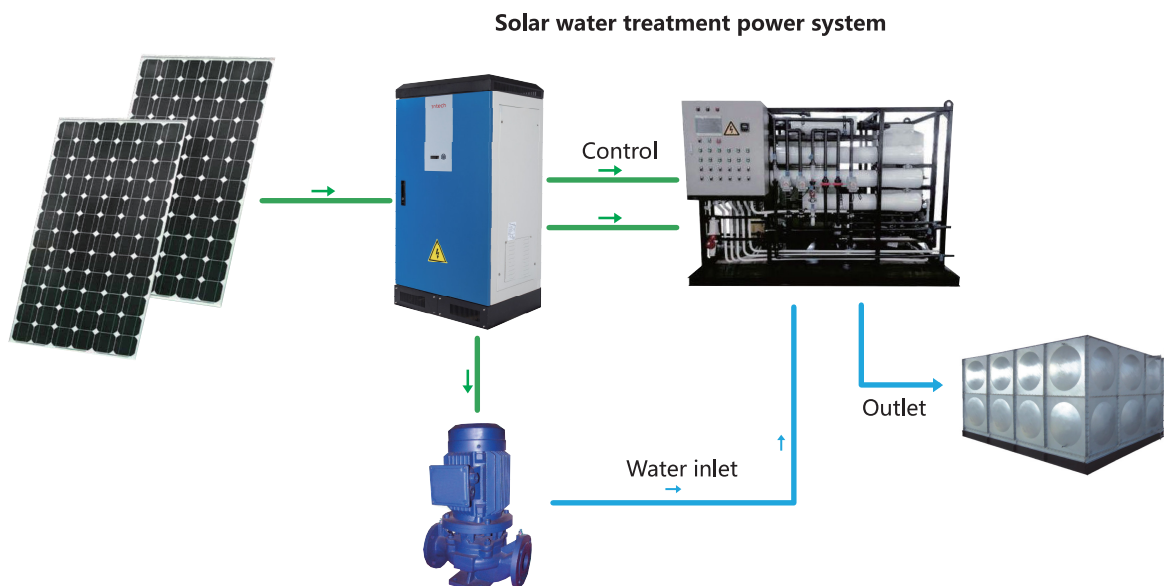
System introduction

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 obtaining usable 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.

Solar + water treatment working principle and function



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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°C						
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.



JNTECH RENEWABLE ENERGY CO.,LTD

Web : www.jntechenergy.com **Tel :** +86-551-62930323

Email : sales@jnnewenergy.com **Add :** NO.28 Taiyuan Road Hefei Anhui China 230051