

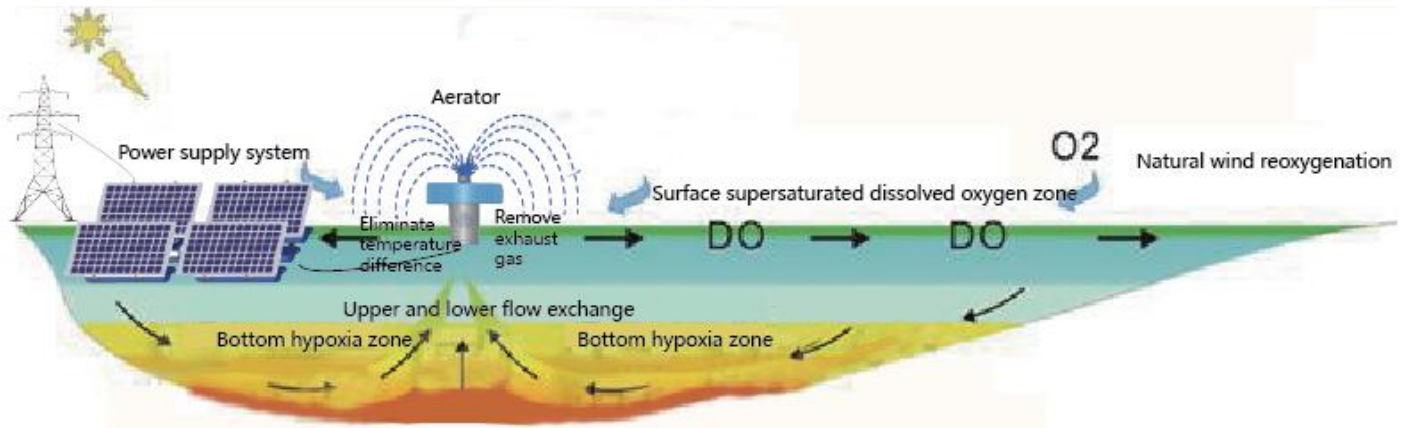
jntech



# Solar Aeration System

make the world greener

# Solar Aeration System



Schematic diagram of solar aeration system

## System features

- 01** Solar power supply all day, zero-cost operation throughout the year, green, energy-saving, environmental friendly;
- 02** Automatic intelligent switch according to the intensity of light, adjust the aerobic power, no need for manual management throughout the year;
- 03** Compared to traditional utility grid aeration equipment, no electric shock, safety;
- 04** The core components have a service life up to 15 years to prevent environmental pollution and ecological damage;
- 05** The metal parts of the system are made of aluminum alloy and stainless steel, which are durable and rust-proof;
- 06** Energy storage and non-storage systems are available according to customer requirements.

## Aerator types



Paddlewheel Aerator



Impeller Aerator



Jet Aerator



Fountain Aerator



Air Jet Aerator



Microporous Aerator

## System applications



Parks, wetlands, lakes, etc. landscape water treatment



Rivers, lakes, etc. surface water purification

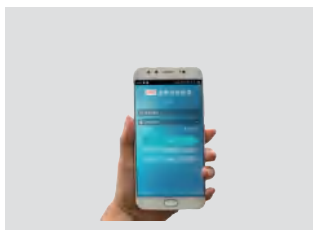


Fish and shrimp farming etc.

## System accessories



GPRS module



Mobile phone APP



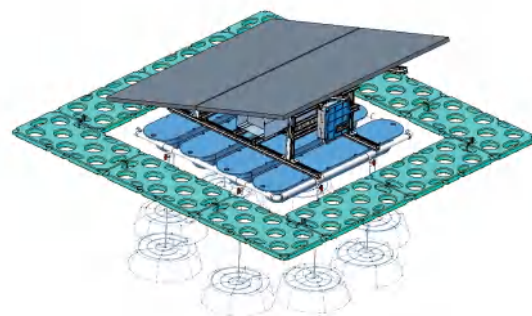
Smart remote controller

## Aerator parameter

Type	Model	Motor Power	Voltage	Load Water Surface	Aeration Capacity
		W	V/50Hz	m <sup>2</sup>	kg/h
Paddlewheel Aerator	JNFB-SC-750	750W	220	500-1000	≥1.1
	JNFD-SC-1100	1100W	220	1200-5000	≥1.3
	JNFB-SC-1500	1500W	220	2000-6500	≥1.5
	JNFB-SC-2200	2200W	220	2500-8000	≥2.0
Impeller Aerator	JNFB-YL-750	750W	220	800-1500	≥1.4
	JNFB-YL-1100	1100W	220	1500-2000	≥1.6
	JNFB-YL-1500	1500W	220	2500-5000	≥2.2
	JNFB-YL-2200	2200W	220	3500-7000	≥4.5
Jet Aerator	JNFD-PY-280	280W	220	200-400	≥0.35
	JNFD-PY-490	490W	220	300-600	≥0.61
	JNFD-PY-750	750W	220	500-1000	≥1.17
	JNFD-PY-1100	1100W	220	2500-5000	≥1.3
	JNFD-PY-1500	1500W	220	3500-5000	≥1.95
Fountain Aerator	JNFD-PQ-250	250W	220	200-400	≥0.3
	JNFD-PQ-550	550W	220	300-600	≥0.7
	JNFD-PQ-750	750W	220	500-1000	≥1.2
	JNFD-PQ-1100	1100W	220	600-1200	≥1.4
	JNFD-PQ-1500	1500W	220	1000-2000	≥1.8
	JNFD-PQ-2200	2200W	220	1200-2400	≥2.0
Air Jet Aerator	JNFB-SL-1500	1500W	220	/	≥0.82
	JNFB-SL-2200	2200W	220	/	≥1.2

## Power supply system

Solar panels+Inverter+Floating structure



# System parameter

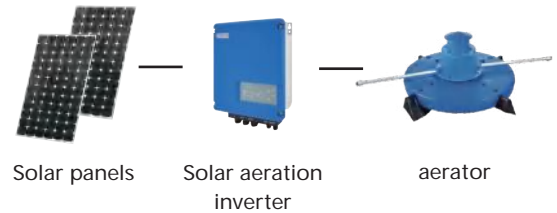
Name	Model	Quantity of panels	PV input power	MPPT voltage range	Model of inverter	Model of aeration aerator	Remote control	GPRS
		( pcs )	( W )	( V )				
Solar pumping inverter floating module	JNAS370L-V1	2	500-550	50-110	JNP370LS-V1\ JNP370L-V1	JNFD-PY-280 JNFD-PQ-250	Optional	Optional
	JNAS550L-V1	2	700-720	80-160	JNP550LS-V1\ JNP550L-V1	JNFD-PY-490 JNFD-PQ-550		
	JNAS750L-V1	4	1000-1200	105-400	JNP750L-V5	JNFB-SC-750 JNFB-YL-750 JNFB-PY-750 JNFB-PQ-750		
	JNAS1K1L-V1	6	1680-1980	130-400	JNP1K1L-V5	JNFD-PY-490 JNFD-PQ-550 JNFD-SC-1100 JNFD-YL-1100 JNFD-PY-1100 JNFB-PQ-1100		
	JNAS1K5L-V1	8	2240-2640	150-400	JNP1K5L-V5	JNFB-SC-750 JNFB-YL-750 JNFB-PY-750 JNFB-PQ-750 JNFB-SC-1500 JNFB-PY-1500 JNFB-PQ-1500 JNFB-SL-1500		
	JNAS2K2L-V1	10	2800-3300	150-400	JNP2K2L-V5	JNFD-PY-490 JNFD-PQ-550 JNFB-SC-2200 JNFD-YL-2200 JNFB-PQ-2200 JNFD-SL-2200		

## Solar aeration system solution

### 1、PV type

#### Advantages

- Pure photovoltaic energy work, no operating costs;
- Modular design, fully automatic operation, low maintenance costs;
- Away from the utility grid, no risk of electric shock, safe and high efficient, long life;
- The installation is simple and convenient, the system is maintenance-free;
- Perfect solution for aquaculture or environmental protection projects in off-grid or remote areas.



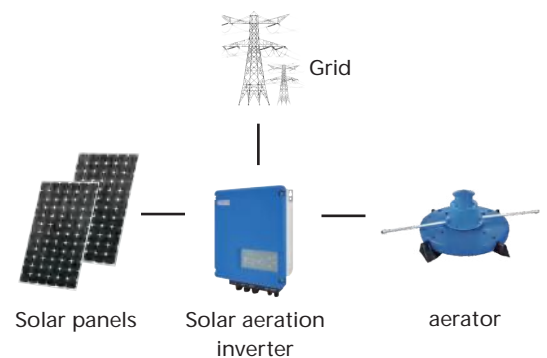
### 2、Solar and grid dual input type

#### Applicable conditions

- High electricity price, no electricity or power shortage areas;
- The system is driving by photovoltaic directly, low cost system, but when there is not light, switch to grid supply for aeration.

#### Advantages

- Solar and grid dual input mode to realize 24H operation of the system;
- Adopt modular design, automatic operation, low maintenance cost;
- Solar and utility grid work online at the same time, to maximize the utilization of photovoltaic energy and reduce the operating cost significantly;
- High efficiency and long service life; Simple installation, convenient, maintenance-free system;
- Perfect solution for all kinds of breeding or environmental protection projects.





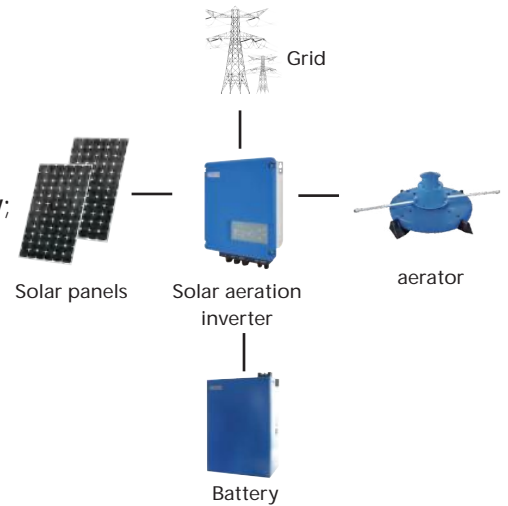
### 3、 Solar and grid dual input off grid energy storage

#### Applicable conditions

- High electricity price, no electricity or power shortage areas;
- Blackout but demand aeration at night.

#### Advantages

- Adopting PV energy storage and utility grid hybrid supply mode to achieve system operation throughout the day continuously;
- Modular design, fully automatic operation, low maintenance cost;
- PV and AC power hybrid simultaneously online operating, priority to the use of photovoltaic energy, improving reliability significantly;
- The system is high efficient and long lifespan; easy and convenient installation, maintenance-free
- Perfect solution for all kinds of farming or environmental protection projects in high electricity prices, no electricity and power shortage areas;



### project reference



1.1kW project



750W project



750W project



550W project



web

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