



[As a leading Solar New Energy Supplier from China, our prioritized goal is to keep developing and producing high

quality and high efficiency product OEM ODM]

# 3S – Standard & Service & Solution

### **About Us**

3S Group - Solar3s - Founded by Mr. Tao Song with a startup of manufacturing and trading in Clothing and Apparels since 1998, Over 20 years flourishing development, Solar energy came into our second territories in 2018, A widely recognized sunrising engagement, we are providing professional, reliable and trustful solar products and solar solution, The world needs to be powered Clean and Natural, we are right here working with drive and enthusiasm.



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## Wind-Solar Hybrid System (New Trends)

### Vertical Energy System Wind Turbine Generator & Solar Panels

### Hybrid Off/ON Grid System With Power Storage

### DESCRIPTION

Wind Turbine Generator/Outor/Inner rotor Permanent magnet generator Environmentally friendly Wind Turbines & Solar Panels Hybrid Energy System

### Wind Generator

\*Solar anti-reverse charge, anti-reverse connection protection;

- \*Over-speed, over-wind speed, fan over-voltage, fan over-current protection;
- \* manual brake, automatic brake protection;
- \*Lightning protection, etc.

### Inverter

- \*Integrated MPPT charge controller.
- \*Equalization charging function.
- \*Work with battery or without battery.
- \*Maximum PV input voltage up to 450VDC.
- \*Configurable grid or solar input priority.
- \*Optional WIFI/ GPRS remote monitoring
- \*5kW,Support parallel operation for capacity expansion up to 30kW.
- \*PV and Grid power the load jointly if PV energy unsufficient.
- \*Flexibly schedule the Inverter charging and discharging time.

wind turbine 3







# Installation Guide













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The above information is for reference only, please refer to the manual of installation and use of wind turbines.

# SongSolar

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SH type wind turbine High efficiency Aluminum alloy with zinc coating 1kw - 60kw power range Color & logo customized One-stop shopping



SX type wind turbine Beautiful design Glass fiber material 1KW - 15KW power range Color & logo customized One-stop shopping



SS Helix wind turbine Beautiful design Glass Fiber material 600W - 2000W power range Color & logo customized One-stop shopping



SL type wind turbines High efficiency Glass fiber material 1kw - 5kw power range Color & logo customized One-stop shopping



SK Type wind turbine High efficiency Glass fiber material 1kw - 30kw power range Color & logo customized One-stop shopping



SD Type wind turbine High efficiency Glass fiber material 30kw - 650kw power range Color & logo customized One-stop shopping





# Horizontal Energy System Wind Turbine Generator & Solar Panels

### Hybrid Off/ON Grid System with Power Storage

### DESCRIPTION

High-quality alloy steel body, using high-quality FRP blades, enhanced anti-corrosion performance, both beautiful and durable

Low start-up wind speed, beautiful appearance and low vibration during operation

High-power tracking intelligent microprocessor control is adopted to effectively adjust the current and voltage

### Wind Generator Features:

- 1. Rare earth permanent-magnet generator
- 2. Small vibration and tiny friction, stable rotation in higher speed
- 3. Streamlined wind turbine body and blade outline design
- 4. Blades have 2 kinds, 300w-1kw for high-rigidity FRP materials and blades are dynamic-balanced
- 5. Noise level below 55dB around the wind turbine tower
- 6. State of the art, workmanship and beautiful appearance
- 7. Use magnetic saturation technology, with 20years designed life;
- 8. Select high quality bearing, free to maintenance;
- 9. Anti-twist device, generator can whirl in each direction
- 10. Anti strong wind, the blade protect itself automatically,
- 11. Applications for Household, Farm, Marine, Boat, Street Lights, Home, Opening Plaza lighting etc.
- 11. Supply matched controller/inverter(optional), make solar and wind energy system more stable.

12. At night or on rainy day, wind turbine generate wind power. On sunny day, solar panel generate solar power. On windy and sunny days, both solar and win

Place of Origin:	China	Use:	Home
Solar panel type:	Monocrystalline Silicon	Type of battery:	Lithium Ion
Controller type:	Pwm, Mppt	Installation method:	Roof Mounting, Ground Mounting
Wind turbine type	horizontal	Input voltage	24v
Output voltage	220v	Wind turbine rated power:	2kw

A wind turbine is a device that converts the wind's kinetic energy into electrical energy. Wind was shown to have the "lowest relative greenhouse gas emissions, the least water consumption demands and... the most favorable social impacts" compared to photovoltaic, hydro, geothermal, coal and gas. So the application of wind turbines is more and more widely.

Our 500W Wind Turbine Generator TY-wind turbine is durable, low maintenance and the most powerful wind





turbine in our lineup of wind turbine having weighing at only 35 lbs. The included Digital MPPT Charge Controller of the 500W wind turbine is specially configured to generate the MAX power output and to

incorporate its safety protocols such as automatic braking and over charging the batteries. Coated with special high weather tolerant protection spray to protect the wind turbine from the elements such as rain. It is a completely self-sustaining stand-alone device that will continuously generates 100% clean GREEN renewable energy, without being present or around it.







5kw Off-Grid Wind Solar Hybrid System Project					
Product	Parameters		Qty		
Month of the second sec	Rated Power: 2000W Maximum Power: 2100W Rated Voltage: 24V/ 48V/ 96V Number Of Blades: 3 Blades Material: Glass Fiber Generator Type: Three Phase Pe Generator Magnet Material: NdFeB Control System: Electromagnet Wheel Diameter: 2.85m Blade Length:1.4m	Start-up Wind Speed: 3.0m/s Rated Wind Speed: 17m/s Survival Wind Speed: 50m/s ermanent Magnet AC Synchronous Design Life: 20 Years Working Temperature: -40°C ~ 80°C	1		
Wind Controller	2KW Rated Voltage: 24V-96V Off Grid Controller		1		
Inverter	2KW 24V-96V Off Grid Inverter		1		





1	Power:540W	
SongSolar	Component dimensions: 2278*1134*35mm	
	Net weight of components:26kg	
	Conversion efficiency:20.9%	
	Peak power voltage:41.0V	6
	Peak power current:13.2A	6
	Open circuit voltage:50.8V	
	short-circuit current : 14.3A	
	Waterproof grade:IP67	
Mono Solar Panel		
	Off-grid single-phase inverter 3KW-24VDC 220VAC 50HZ	
	Rated output power: 3KW	
	Built-in 50A MPPT controller	
	DC input voltage: 24VDC	
	Output voltage: 220VAC 50HZ	1
	Size: 556*308*179MM	
	Net weight: 31kg	
Off-Grid Single-Phase		
Inverter		
	Model: TYL12VDC-200AH	
	Type: battery for energy storage	
* *	Chemical Type: Gel Battery Battery cover and vent structure: valve-regulated	
VL° .	sealed battery State of charge: maintenance-free battery System configuration:	2
The second se	4 batteries per sy <mark>stem; 4 in series</mark> .	L
- Internet		
Battery		
	Hat din galuanized staal breakst, good beering senseity, no deformation	
	Hot-dip galvanized steel bracket, good bearing capacity, no deformation,	
	corrosion resistance, no maintenance cost, carrying 10 pieces of 335W photovoltaic panels System configuration: 1 set of brackets per system	
	photovonale pariers system configuration: I set of brackets per system	
		1
Photovoltaic bracket		
<u> </u>		



# SongSolar

	Polyethylene TUV certification 4MM2 red and black 30 meters each Copper core	
	photovoltaic outdoor special cable Application temperature is -40 $^\circ C$ to	
	120 °C	4
	● Good resistance to UV rays, ozone and other compounds	I
Photovoltaic cable	ullet Good mechanical structure strength. Effectively waterproof, oil-proof and	
	chemical-proof Including the whole set of system cables	
	MC4 connector 1 pair	
	Product main features:	
	1. High current and high voltage withstand capability	
	2. Good impact resistance	
	3. Lower contact resistance	5
	4. Innovative sealing, waterproof and dustproof design, reaching IP67	
and the second se	5. Excellent high and low temperature, waterproof, anti-ultraviolet and other	
	properties, suitable for long-term outdoor use	
MC4 connector	System configuration: Each system is equipped with 5 pairs of MC4 connectors.	





# Let`See Who We Are?

Solar3s, as a leading supplier in New Energy, our prioritized goal is to keep

developing and producing high quality and high efficiency product.

# **Address**

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