

### **INTRODUCTION:**

The wind/solar hybrid controller is control device which can control wind turbine and solar panel at the same time and transform wind and solar energy into electricity then store to the battery bank.. Then inverter transfers the battery DC power into AC power for AC load use. As wind and sun are susceptible to different regions, seasons and weather. With the certain complementarity of the wind and solar resources, the controller can make full use of wind and solar energy and ensure the continuity and stability of power supply .

### **PERFORMANCE FEATURES:**

- ✧ Perfect protection function, thus the system has higher reliability.
- ✧ LCD display function, visually display battery voltage and charge current.
- ✧ Integrated design of controller and inverter, with simple structure and easy maintenance.
- ✧ Frequency toroidal transformer, ensures inverter has high efficiency and low no-load loss.
- ✧ Pure sine wave output, compared with square wave or modified wave, has higher efficiency and higher capability of driving load.
- ✧ PWM stepless unload mode, which burn the excess power into dump load, making the battery charging in best status.

### **OPTIONAL FUNCTIONS:**

- ✧ By-pass function: It will switch to the city grid automatically when the battery is under-voltage or something wrong with the inverter, which ensures the continuity and stability of system.
- ✧ Chinese and English version : User can choose language versions according to requirement of Chinese and English or pure English Version.

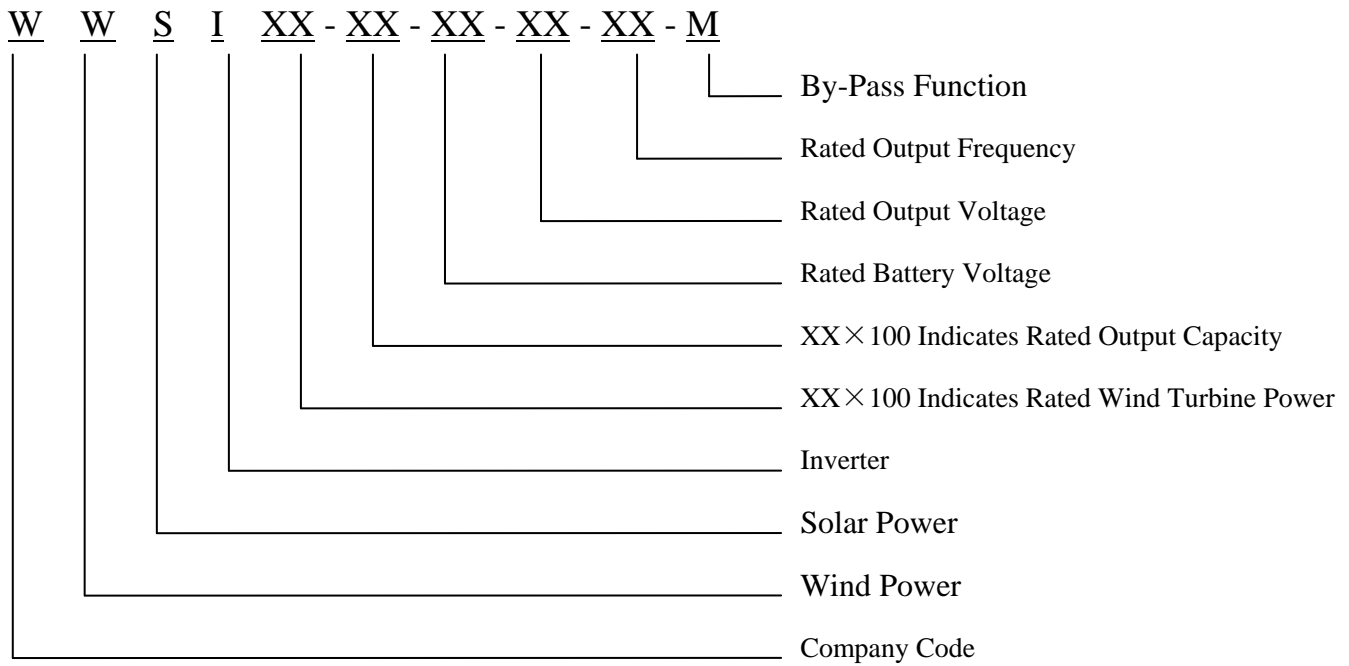
### **PRODUCTS DISPLAY:**

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**MODEL SPECIFICATION:**



**APPLICATION AREAS:**

- ✧ Stand alone wind power station, photovoltaic power station and wind/solar hybrid power station.
- ✧ Stand alone domestic household wind/solar hybrid power system, wind power system ,photovoltaic power system.

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- ✧ GSM base stations, expressway and other no-residential regions.
- ✧ Coastal islands, remote mountainous, border posts for regions shortage of or without electricity.
- ✧ Government demonstration projects, landscape lighting project, street light project etc.

**WARM PROMPTS:**

Customers, tell us more about your power consuming needs, how do you want Solar& Wind Hybrid system operating, Our technical workers will design the Wind&Solar Hybrid system according to your power needs.  
for more information, lease E-mail us or Call us @+86-512-66314976.

- ✧ Rated output capacity, rated output voltage, rated output frequency of the inverter.
- ✧ The load characteristic: Resistive load or Inductive load.
- ✧ With or without by-pass function: Customers should provide rated voltage and frequency of AC input if they need it.

**TECHNICAL PARAMETERS:**

Model	WWSI0303-12	WWSI0303-24
Rated Output Capacity	300VA	
Rated Wind Turbine Power	300W	
Rated Solar Power	90W	
Rated Battery Voltage	12 V <sub>DC</sub>	24 V <sub>DC</sub>
Battery Floating Charge Voltage	15 V <sub>DC</sub>	30 V <sub>DC</sub>
Over Voltage Shutoff	17 V <sub>DC</sub>	34 V <sub>DC</sub>
Over Voltage Recovery	16.5 V <sub>DC</sub>	33 V <sub>DC</sub>
Under Voltage Shutoff	10.5 V <sub>DC</sub>	21 V <sub>DC</sub>
Under Voltage Recovery	12 V <sub>DC</sub>	24 V <sub>DC</sub>
No Load Loss	0.6A	0.5A
Output Wave Form	Pure Sine Wave	
Display Mode	LCD	
Display Parameters	Battery Voltage, Charge Current, Status Parameters	

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Wind/solar hybrid controller and inverter

Cooling Mode	Fan
Rated Output Voltage	110/120/220/230/240V <sub>AC</sub>
Wave Distortion	≤4%
Output Frequency	50/60 Hz±0.05Hz
Overload Capacity	120% ,1min 150% 10s
Inverter Efficiency	Maximum 90%
Noise (1m)	≤40dB
Insulating Strength	1500V <sub>AC</sub> ,1 min
Protection Function	Solar reverse charge protection, Solar reverse connection protection, Battery overcharge protection, Battery over discharge protection, Battery reverse connection protection, Wind turbine current limiting, Wind turbine automatic brake and manual brake, Output overload protection, Output short circuit protection, overheating protection.
Working Ambient Temperature	-20~50℃
Working Altitude	≤4000m
Working Ambient Humidity	0~90%, no condensing
<b>In order to serve our customers better. Our company can adjust parameters configuration according to customer's requirement.</b>	

**Declare: The product has applied for patent protection, counterfeiting will be subject to legal sanctions. Our company reserves the right to change products .Design and specification are subject to change without prior notice.**

**TECHNICAL PARAMETERS:**

Model	WWSI0505-24	WWSI0606-24
Rated Output Capacity	500VA	600VA
Rated Wind Turbine Power	500W	600W
Rated Solar Power	150W	180W
Rated Battery Voltage	24 V <sub>DC</sub>	24V <sub>DC</sub>
Battery Floating Charge Voltage	30 V <sub>DC</sub>	30 V <sub>DC</sub>
Over Voltage Shutoff	34 V <sub>DC</sub>	34 V <sub>DC</sub>
Over Voltage Recovery	33 V <sub>DC</sub>	33 V <sub>DC</sub>
Under Voltage Shutoff	21 V <sub>DC</sub>	21 V <sub>DC</sub>
Under Voltage Recovery	24 V <sub>DC</sub>	24 V <sub>DC</sub>
No Load Loss	0.55A	0.58A

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Output Wave Form	Pure Sine Wave
Display Mode	LCD
Display Parameters	Battery Voltage, Charge Current, Status Parameters
Cooling Mode	Fan
Rated Output Voltage	110/120/220/230/240V <sub>AC</sub>
Wave Distortion	≤4%
Output Frequency	50/60 Hz±0.05Hz
Overload Capacity	120% ,1min 150% 10s
Inverter Efficiency	Maximum 90%
Noise (1m)	≤40dB
Insulating Strength	1500V <sub>AC</sub> ,1 min
Protection Function	Solar reverse charge protection, Solar reverse connection protection, Battery overcharge protection, Battery over discharge protection, Battery reverse connection protection, Wind turbine current limiting, Wind turbine automatic brake and manual brake, Output overload protection, Output short circuit protection, overheating protection.
Working Ambient Temperature	-20~50℃
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**TECHNICAL PARAMETERS:**

Model	WWSI0610-24	WWSI1010-48
Rated Output Capacity	1kVA	
Rated Wind Turbine Power	600W	1kW
Rated Solar Power	180W	300W
Rated Battery Voltage	24 V <sub>DC</sub>	48V <sub>DC</sub>
Battery Floating Charge Voltage	30 V <sub>DC</sub>	60 V <sub>DC</sub>
Over Voltage Shutoff	34 V <sub>DC</sub>	68 V <sub>DC</sub>
Over Voltage Recovery	33 V <sub>DC</sub>	66 V <sub>DC</sub>

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Under Voltage Shutoff	21 V <sub>DC</sub>	42 V <sub>DC</sub>
Under Voltage Recovery	24 V <sub>DC</sub>	48 V <sub>DC</sub>
No Load Loss	0.6A	0.35A
Output Wave Form	Pure Sine Wave	
Display Mode	LCD	
Display Parameters	Battery Voltage, Charge Current, Status Parameters	
Cooling Mode	Fan	
Rated Output Voltage	110/120/220/230/240V <sub>AC</sub>	
Wave Distortion	≤4%	
Output Frequency	50/60 Hz±0.05Hz	
Overload Capacity	120% ,1min 150% 10s	
Inverter Efficiency	Maximum 90%	
Noise (1m)	≤40dB	
Insulating Strength	1500V <sub>AC</sub> ,1 min	
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