

EEA2 Series

1000W Wind/Solar Hybrid Controller Off-grid



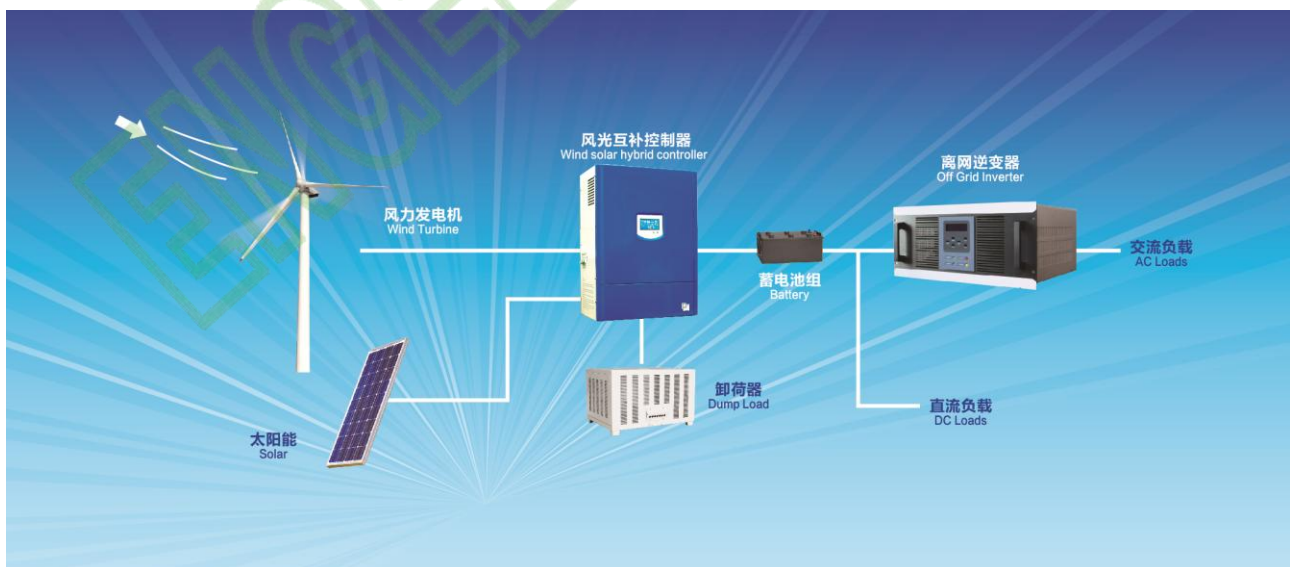
Product Features:

- ◆ The product can be manufactured in accordance with either JB/T6939.1-2004 industrial standard, GB/T 19115.1-2003 national standard or users' technical requirements.
- ◆ The big screen LCD display. Clearly present the working status of the wind turbine, solar panel, battery and controller. (Wind turbine voltage, current, power display ;solar voltage, current, power display, battery

charging current, voltage, charging power, power display.)

- ◆ EEA2 controllers adopt three-phase dump load control.
- ◆ The total power of three-phase dump load is 200% larger than the rated power of the wind turbine. Ensure safe operation of the overall wind turbine system.
- ◆ When the batteries group damaged or be disjointed, the three-phase dump load will automatically start to avoid the idle run of the wind turbine and the occurrence of runaway accident.
- ◆ It has reverse connection, anti-decoupling and damage-resisting protection of the battery.
- ◆ Over-charging protection of the battery: When the battery is full (the battery pressure reaching 125% of the rated pressure), the controller will automatically carry out three-phase dump load to stop charging the battery.
- ◆ Auto recovery of battery charging: When the battery pressure reduces to 108% of the rated pressure, the dump load will stop three-phase dump load to automatically recover battery charging.
- ◆ For the different wind turbine type, the controller can be equipped with mechanical yawing, furred empennage, mechanical or hydraulic, pneumatic, electric magnetic and other brake functions.
- ◆ The controller is equipped with manual three-phase dump load switch. To using this switch, the wind turbine will carry out three-phase dump load forcibly.

Connection Diagram:



Technical Parameters

Type	1KW-24Vdc	1KW-48Vdc
Wind turbine rated power	1KW	1KW
Wind turbine max. power	2KW	2KW
Solar panel power	30A	30A
Battery	24Vdc	48Vdc
Function	Rectifier,charge, control	
Display mode	LCD	
Display content	Wind turbine voltage, wind turbine current, wind turbine power, solar panel voltage, solar panel current, solar panel power, battery voltage, charge current	
Wind turbine 3-phase dump load voltage	29±1Vdc	58±1Vdc
Wind turbine 3-phase brake voltage	30±1Vdc	60±1Vdc
Wind turbine Recovery charging voltage	27±1Vdc	54±1Vdc
Solar controller stop charging voltage	30±1Vdc	60±1Vdc
Solar restore charge voltage	27±1Vdc	54±1Vdc
Low-voltage of the battery	20±1Vdc	40±1Vdc
Self-provided connecting wire of the battery	>10mm ²	>4mm ²
Work environment temperature	-30-60°C	
Relative humidity	<90% No condensation	
Noise (1m)	<40dB	
Degree of protection	IP20 (Indoor)	
Cooling method	Forced air cooling	
*Communication interface (optional)	RS485/USB/GPRS/Ethernet	
*Temperature compensation (optional)	-4mv/°C/2V,-35°C~+80°C,Accuracy:±1°C	

Size of the controller (mm)	440*350*255
Weight of the controller	9Kg
Size of the dump load (mm)	340*280*170
Weight of the dump load	5Kg

***Above parameter only for reference only. Could be custom made to user specifications.**

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