

## EEA1 Series

# 1000W Wind/Solar Hybrid Controller Off-grid

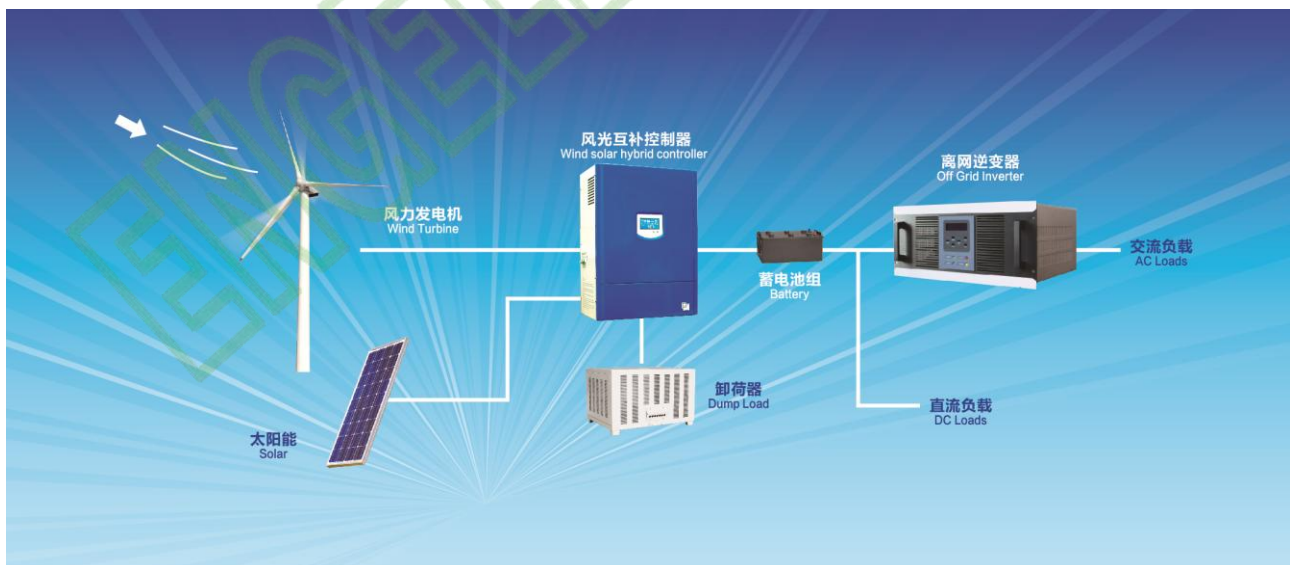


### Product Features:

- ◆ 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.
- ◆ EEA1 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	300W	300W
Battery	24Vdc	48Vdc
Function	Rectifier, charge, control	
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 <sup>2</sup>	>4mm <sup>2</sup>
Work environment temperature	-30-60°C	
Relative humidity	<90% No condensation	
Noise (1m)	<40dB	
Degree of protection	IP20 (Indoor)	
Cooling method	Forced air cooling	
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	4.5Kg	

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

