

EEA1 Series

1000W Wind/Solar Hybrid Controller Off-grid

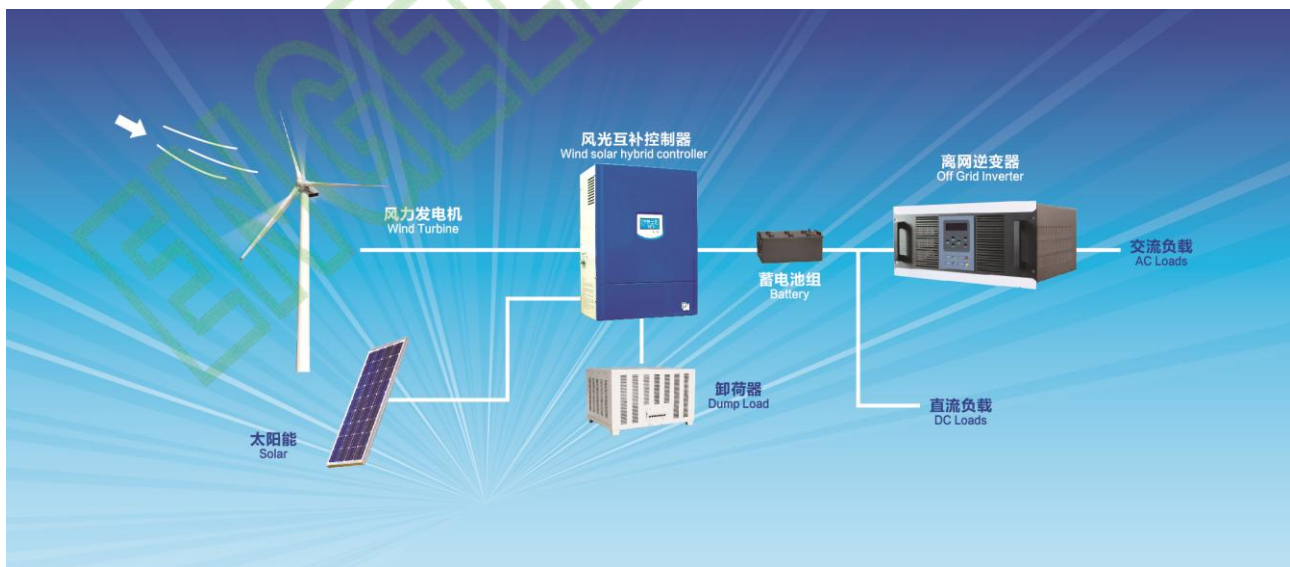


Product Features:

- ◆ 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	2KW-48V
Wind turbine rated power	2KW
Wind turbine max. power	4KW
Solar panel power	600W
Battery	48Vdc
Function	Rectifier, charge, control
Wind turbine 3-phase dump load voltage	58±1Vdc
Wind turbine 3-phase brake voltage	60±1Vdc
Wind turbine Recovery charging voltage	54±1Vdc
Solar controller stop charging voltage	60±1Vdc
Solar restore charge voltage	54±1Vdc
Low-voltage of the battery	40±1Vdc
Self-provided connecting wire of the battery	>10mm 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
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.**

