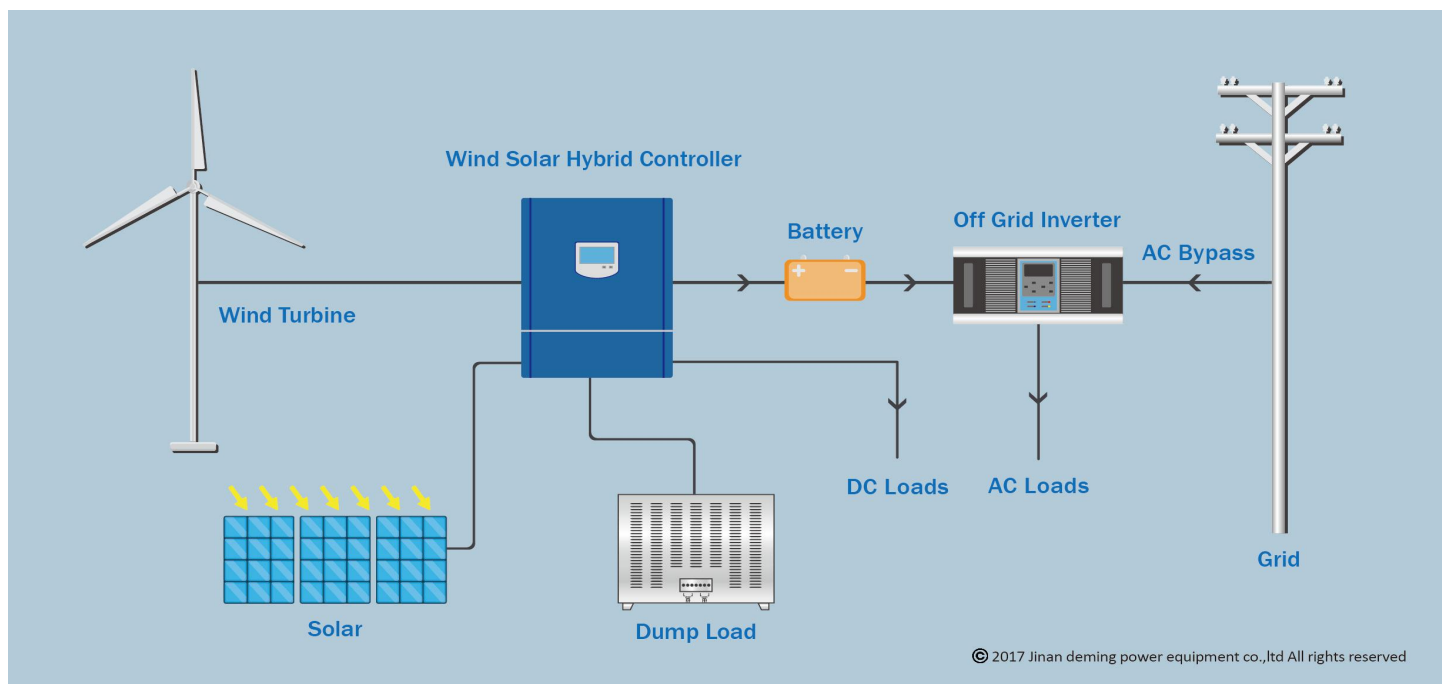


## FKJ-A (A1&A2) type off-Grid Wind turbine Controller



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### FKJ-A model Product Characteristics

- ♦ 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 ; battery charging current, voltage, charging power, power display.)

- ◆ FKJ-A 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.
- ◆ Under the circumstances of decoupling and damage of the battery, 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, furled 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.

- ♦ Optional communication Mode: RS232、RS485、GPRS、USB、RJ45 ect, Can monitor multiple devices running.



A1-Needle Type



A2-LCD Type

## Technical Parameters of the FKJ-A1-A2 Off - Grid Wind turbine Controller

Type	300W12Vdc	300W-24Vdc	500W12Vdc	500W-24Vdc	500W-48Vdc	750W-24Vdc
Wind turbine rated power	300W	300W	500W	500W	500W	750W
Wind turbine max. power	600W	600W	1KW	1KW	1KW	1.5KW
Battery	12Vdc	24Vdc	12Vdc	24Vdc	48Vdc	24Vdc
Function	Rectifier,charge, control					
Display mode	LCD					
Display content	Wind turbine voltage, wind turbine current, wind turbine power, battery voltage, charge current					
Wind turbine 3-phase dump load voltage	14.5±1Vdc	29±1Vdc	14.5±1Vdc	29±1Vdc	58±1Vdc	29±1Vdc
Wind turbine 3-phase brake voltage	15±1Vdc	30±1Vdc	15±1Vdc	30±1Vdc	60±1Vdc	30±1Vdc
Wind turbine Recovery charging voltage	13.5±1Vdc	27±1Vdc	13.5±1Vdc	27±1Vdc	54±1Vdc	27±1Vdc
Low-voltage of the battery	10±1Vdc	20±1Vdc	10±1Vdc	20±1Vdc	40±1Vdc	20±1Vdc
Self-provided connecting wire of the battery	>6mm <sup>2</sup>	>2.5mm <sup>2</sup>	>10mm <sup>2</sup>	>4mm <sup>2</sup>	>2.5mm <sup>2</sup>	>6mm <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					
*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)	350*330*205					
Weight of the dump load	5.5Kg					

**\*Above parameter only for reference 1. Could be custom made to user specifications. 2. Could have solar power control subject to user demand.**

## Technical Parameters of the FKJ-A1-A2 Off - Grid Wind turbine Controller

Type	1KW-24Vdc	1KW-48Vdc	2KW-48V	2KW-96Vdc	3KW-48Vdc	3KW-24Vdc
Wind turbine rated power	1KW	1KW	2KW	2KW	3KW	3KW
Wind turbine max. power	2KW	2KW	4KW	4KW	6KW	6KW
Battery	24Vdc	48Vdc	48Vdc	96Vdc	48Vdc	24Vdc
Function	Rectifier,charge, control					
Display mode	LCD					
Display content	Wind turbine voltage, wind turbine current, wind turbine power, battery voltage, charge current					
Wind turbine 3-phase dump load voltage	29±1Vdc	58±1Vdc	58±1Vdc	116±1Vdc	58±1Vdc	29±1Vdc
Wind turbine 3-phase brake voltage	30±1Vdc	60±1Vdc	60±1Vdc	120±1Vdc	60±1Vdc	30±1Vdc
Wind turbine Recovery charging voltage	27±1Vdc	54±1Vdc	54±1Vdc	108±1Vdc	54±1Vdc	27±1Vdc
Low-voltage of the battery	20±1Vdc	40±1Vdc	40±1Vdc	80±1Vdc	40±1Vdc	20±1Vdc
Self-provided connecting wire of the battery	>10mm <sup>2</sup>	>4mm <sup>2</sup>	>10mm <sup>2</sup>	>6mm <sup>2</sup>	>12mm <sup>2</sup>	>6mm <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					
*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)	350*330*205				480*360*200	
Weight of the dump load	5.5Kg				6.5Kg	

**\*Above parameter only for reference 1. Could be custom made to user specifications. 2. Could have solar power control subject to user demand.**

## Technical Data Sheet Of The FKJ-A2-2KW24V Off-Grid Wind Turbine Controller

Type	2KW24V
Wind turbine rated power	2KW
Wind turbine max. power	4KW
Battery	24Vdc
Function	Rectifier,charge, control
Display mode	LCD
Display content	Wind turbine voltage, wind turbine current, wind turbine power, battery voltage, charge current
Wind turbine 3-phase dump load voltage	29±1Vdc
Wind turbine 3-phase brake voltage	30±1Vdc
Wind turbine Recovery charging voltage	27±1Vdc
Low-voltage of the battery	20±1Vdc
Self-provided connecting wire of the battery	> 10mm <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
*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)	350*330*205
Weight of the dump load	5.5Kg

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