

Controller's manual
for 200w -2000w wind turbine generator



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NOTICES:

*This brochure has been cautiously checked by our professionals to ensure its accuracy

* No notification if the manual modified.

*The color of photographs may be different from real objects.

*The wire connection and maintenance of controller should be acted by professionals

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1. Introduction

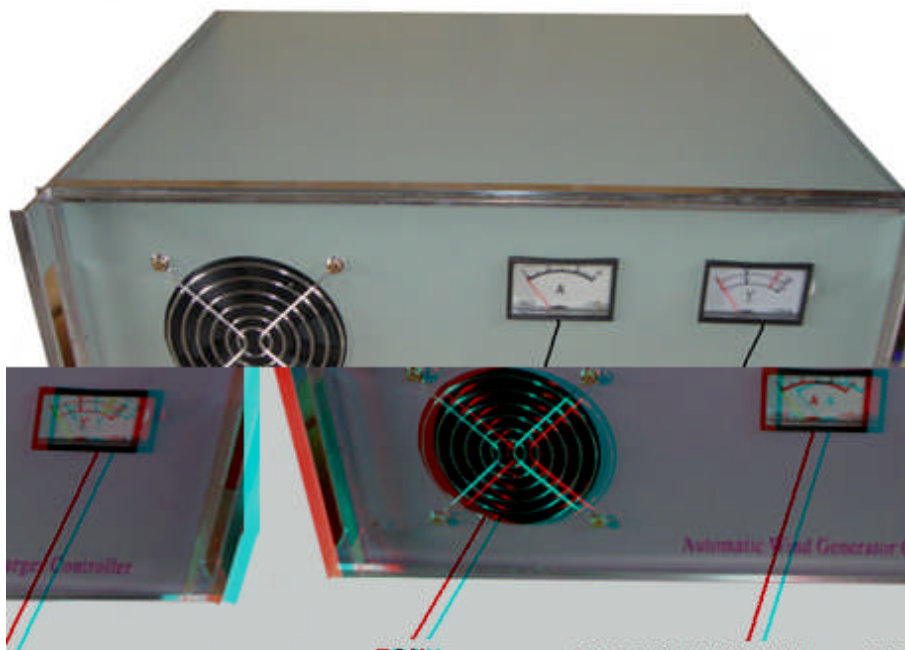
This controller is used to commutate, charge battery and realize download, which could apply to wind turbine system installed on ranch, fishing boat, island or sentry.

This series controller has voltage of 12V, 24V, 36V, 48 and 120V with power respectively are 200w, 250W, 300W, 500W, 1000W and 2000W. Before purchasing and using this controller, we suggest you ensure the voltage and power is in line with the generator, also promise the DC voltage of controller, batteries and inverter should be equal.



Graph one: front side of controller for 200w to 1000w

Graph two: backside of controller for 200w to 1000w



Graph three: front side of controller for 2000w

Graph four: back side of controller for 2000w

2. Wire connection

Choose a calm day to do wind generator installation and wire connection

Wire procedures

- 1) Connect batteries and controller. Link the cathode of battery to the joint of battery cathode (the red one) on the controller, and link the anode to the anode joint (the black one) of battery on the controller.
- 2) Connect the three output of generator to the joint wind turbine on the controller (the three red wire junction), no difference between anode and cathode.
- 3) Turn off the switch of inverter and connect the anode of battery to the anode input of inverter.
- 4) Connect the cathode to the cathode input of inverter.
- 5) Turn on the switch of inverter and put the appliance into the inverter. Switch off the inverter after use.

3. Notices during the operation

During the operation, the following notices should be concerned:

- 1) Weather the guideline of the voltage table is rightward or not, if it read as zero, please check if the connecting cable has been shortcut or not.
- 2) The figure on the front side of the current table should not be zero, if it is zero, please check weather the wind speed is too slow, or the voltage of batteries has surpassed the overcharged voltage.
- 3) Weather the fan is operating normally or not when downloads.
- 4) Weather the temperature of spare parts is too high

4. Maintenance and examination

Spare parts	Examination contents	Trouble shooting
Input and out put joint	Flexible or not	Fixed it
Input and out put joint	Rusted or not	Change it
Wire board	Dusted or not	Clean the dust and add lubricant
Wire board capacity	color changed or with stink smell	Change it
fan	Rotate difficultly or not	Change it
fan	Not working	Change it
table	Not working	Change it

5. Controller parameters

model	200W	300W	500W	1000W	2000W
Rated voltage V	12/24	12/24	24	48	120
Overvoltage V	15/30	15/30	30	60	150
Over charge resume voltage V	14/28	14/28	28	56	140
Under voltage V	10.5/21	10.5/21	21	42	105
Under charge resume voltage V	12/24	12/24	24	48	120
Power of download W	200	300	500	1000	2000
Net weight kg	1	1	2	2	2
Working mode	continuous and intelligent				
Environment	temperature -10~40sdegrees humidity less than 85%				

6. Choice for a lay place

In order to ensure a good performance and long term working span, it should be prevented from following destroy.

- 1) Irradiate directly by the sun
- 2) corrosi on gas or liquid
- 3) Oil fog or water split
- 4) Salt fog

- 5) Dripped in the rain or get humid
- 6) Dust in the air or metal powder
- 7) Mechanical impact and shaking
- 8) Extreme environment (the temperature allowed is 20 to 40 degree)
- 9) Electromagnetic interference
- 10) Objects easily flamed
- 11) Radiation materials