










Charge controller--For wind power

12V/24V/48V

-  Please use the insulation tool when you install it, do not use inferior tools.
-  Do not use the poor quality of the battery, so as to avoid leakage of liquid corrosion or burning.
-  Do not use too small or the poor quality of the cable, so as not to cause leakage or fire.
-  Do not reserve the battery's positive and negative.
-  Do not put the controller is placed in a damp, dust, rain, severe vibration, corrosion and strong electromagnetic interference environment. It is strictly forbidden to install and use this controller in the environment of mixed combustible gas.
-  In the surrounding of the controller is strictly prohibited to place any flammable, explosive and dangerous goods.
-  Controller on all kinds of symbols, please remain intact, please let the children stay away from the scene, to avoid accidents.
-  Do not open the shell of the product itself.
-  When installing the equipment to ensure that the terminal block is located in the bottom of the device to prevent rain pouring into the shell body.

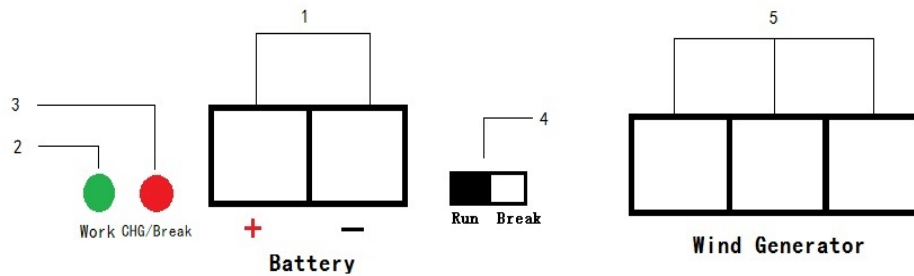
Product overview

FWC series wind power charge controller is designed for small wind power development of the latest charge controller, it has smaller size, easy to install, the use of aluminum profiles, can be very good use of shell cooling, further to the high integration and miniaturization, the new generation of controller with charging instructions, manual brake and other functions, to meet the actual needs of more customers. The circuit uses the parallel type unloading design, can better protect the wind turbine and the battery, the components adopt pure imported IR integrated chip and power components. Advanced design, high quality imported components is a strong guarantee for product stability and reliability.

NOTE:

- 1、 When see the controller, please sure there is no damage. If have , please contact the supplier in time.
- 2、 Select the corresponding working voltage of the battery, the correct connection and positive and negative pole, is strictly prohibited!
- 3、 Connecting the conductor of the wind turbine, the three line of the wind turbine is not in order.
- 4、 The controller manually switch to the "**Run**", the factory general set "**Brake**". Charging system to normal operation.

Wiring diagram:



Controller battery terminal connection diagram, wind generator connection diagram.

Digital description:

‘1’ is the positive and negative electrode of the battery, This controller is equipped with battery anti-reverse connection function, If the battery is positively negative, the controller will not have any display, When the battery is properly connected, wait about 10 seconds and the controller CHG/Break indicator will flash.

‘2’ is the green led, when the system is working, led will be lit.

‘3’ is the CHG/Break led, when battery will be charging and the current more than 1A, the LED will be GREEN, and if the battery Charge-Full or switch is on “Break” or the controller temperature over 70°C the LED will be RED.

‘4’ is emergency switch, the switch is on ‘Break’ , the system is in an emergency breaking state, as the same time the CHG/Break led will be RED. the switch is on ‘Run’ site, the controller is in normal charge state.

‘5’ is the connecting end of the wind generator which is connected with the three wire of the wind generator in turn, such as the direct generator or the single generator, will be connected with two of the three terminals. The controller is compatible with the market on the three-phase, single-phase and DC wind generator. This controller has a simpler operation.

Flicker times and corresponding battery rated voltage refer to the table below:

NO.	Flicker times	Rated Battery voltage	Identification Range
1	3	12V	Battery voltage $\leq 17V$
2	4	24V	$17V < \text{Battery voltage} \leq 35V$
3	5	48V	$35V < \text{Battery voltage} \leq 70V$

Main technical parameters

Model	FWC04-12 /08-24 /10-48
DC rated voltage	12V /24V /48V
Battery over-charge voltage	15V /29V /58V
Temperature compensation (optional)	8mV/°C/2V (adjustable) -20~65°C
Working environment temperature	-20~+55°C 35~95%RH (no condensation)
Storage environment temperature	-30~+65°C
Altitude	≤ 5500 M
Protection	Battery anti reverse, Over-charge protection, Lightning, Current-limit, automatic and manual brake.
N.G	0.45kg
Size	180*76*46mm
In order to serve our customers better. Our company can adjust parameters configuration according to customer's requirement.	