Wind Generator Charge Controller

User Manual

Version:2022001

1. Functions

- The controller will automatically detect the battery voltage 12 volt or 24 volt and call the corresponding parameters to charge the battery.
- In order to protect the system including the wind generator and the battery, the controller will brake the wind generator when the battery is completely charged or the input voltage is too high. When the input voltage from wind generator becomes lower, the controller will automatically recover the charging.
- Three LED indicators are used to show the status of the system.
- Waterproof body, protection grade up to IP67.
- Wide range working temperature, -35℃~70℃.

2. Instructions

- Make sure the rated voltage of the wind generator match with the rated voltage of the battery.
- Don't directly connect the wind controller with the wind generator until it has been connected with the battery or other DC load.
- Connect controller with the battery properly.
  The "+" red wire of the controller with the positive pole of the battery, the "-" black wire of with the negative pole of the battery.
- Connect in order: Connect with the battery first, then connect the three green wires with the AC output of the wind generator.

3. Indicator Lamps

- **Red light（Left）: Brake Indicator**
  When input voltage is too high or the battery is completely charged, controller will brake the wind generator and the red light will be on.
- **Green light（Middle）: Wind Generator Charge Indicator**
  When getting the input from the wind generator, the green light will flash. The input voltage becomes higher, the green light will flash faster.
- **Green light（Right）: Battery Connecting Indicator**
  When the battery is connected properly, the green light will be on.

4. Technical Specification

Model Number	**SF-12-24-A**	
Rated Power of the Wind Generator	100W/200W/300W/400W/500W/600W	
Rated Voltage of the Battery	12V	24V
Brake Voltage	14.4V	28.8V
Recovery Voltage	13.2V	26.4V
Max Input Current	30A	
Indicator Lamps	LED (3 PCS)	
Dimension	100mm×75mm×23mm	
Quiescent Current	≤15 mA	
Protection Grade	IP67	