

Possible Causes Of Insufficient Charging Power

1.Used our controller DC port (DC5521 jack) for charging

①If the DC5521 jack is used to connect the power station jack, the output port of the DC5521 has only 80-90W of power. No matter how much power solar panels are used, even if a 200W solar panel is used, the output is only 80-90W of power.

②The wire diameter of the DC5521 connection terminal we have matched is 5A current, and the current output may also be affected by the small wire diameter and the large resistance value.

Solution: It is recommended to connect the shortcut terminals directly, which can maximize the power output of the solar panel.



The method of cutting the DC he

2.The power station's charging jack may be port 5525

The charging jack of many power stations may be the 5525 port. Although the 5521 male plug can be plugged into the 5525 female plug, it can be charged, but due to poor contact, the resistance is too large, and the loss of the solar panel is also large.

Solution: It is recommended to use a 5525 male (generally the power station has this connection line) line to connect the quick terminal.

3.The protection voltage of the power station is low

If the protection voltage of the power station for charging is set low, for example, the allowable solar charging voltage is 14-25V, that is, the maximum voltage is 25V, then once the power station detects that it is higher than 25V, it will turn off charging.

Solution: When your power station is below 50%, connect the charging cable of the solar panel and the power station first, so that the solar panel and the power station form a closed circuit, and then turn on the solar panel (the solar panel and the power station form a closed circuit)

After the circuit, it will pull down the working voltage of the solar panel, so that the charging can be completed). When the charging is 70% full, the power station enters the floating charging stage. At this time, the solar voltage recovers to 19.8V (working voltage 19.8V, open circuit voltage 25.75V, the power station detects the open circuit voltage.), and it may be turned off by the power station for charging. At this time, it can no longer be charged.

This is the protection requirement of the power station itself, and has nothing to do with solar panels.

4.The solar charge controllers of different power stations are different, and the charging efficiency is different

Generally, the efficiency of the solar charge controller is 85-93%, so our K-SP06 solar panel actually only has 127-139W when charging the power station, and the power station displays this power. It depends on the charging efficiency of your power station.

Solution: It is recommended to provide detailed parameters of the power station for our evaluation.