



**Unlimited Returns:**  
***If you have any problems with this BMS, we will take it back.***

Email:  
[OverkillSolar@gmail.com](mailto:OverkillSolar@gmail.com)  
for tech support or advice.

If you need help I will help.

If it isn't working right I will replace it.

**If it's totally fried I will refund your money.**

*This includes anything you did to break it.*

Enjoy,  
Steve.

Email:  
[OverkillSolar@gmail.com](mailto:OverkillSolar@gmail.com)

**Please write a product review on OverkillSolar.com**  
Include a photo of your finished battery,  
I would love to see it!

## Protection Parameters Explained:

These are the adjustable battery protection settings, as shown in this iPhone screenshot. Notes are in RED

Verizon 1:06 PM 72%

< xiaoxiang BMS



BMS read



open configuration



save configuration



BMS write



First, press "BMS read" to download current settings from the BMS

Android and desktop users will find a different layout, but the functions are the same.

### Protections

	Trigger Value	Release Value	Delay [s]	
Cell over voltage	3650 mV	3500 mV	2	Disconnects charging current if any cell voltage goes over the Trigger value. Reconnects when all cells drop below the Release value.
Cell under voltage	2500 mV	3000 mV	2	Cuts off discharging current if any cell voltage goes under the Trigger value. Reconnects when all cells rise above the Release value.
Batt over voltage	58400 mV	56000 mV	2	Cuts off charging current if entire pack goes over the Trigger value. Reconnects when pack drops below the Release value.
Batt under volt.	40000 mV	48000 mV	2	Cuts off discharging current if entire pack falls under the Trigger value. Reconnects when pack rises above the Release value.
Charge over curr.	110000 mA	32 s	10	Cuts off charging current if the current exceeds the trigger value, for [delay] seconds. Reconnects after [release value] seconds.
Discharge over curr.	110000 mA	32 s	10	Cuts off discharging current if the current exceeds the trigger value, for [delay] seconds. Reconnects after [release value] seconds.
Charge over temp	70 °C	60 °C	2	Cuts off charging current if the probe temperature exceeds the trigger value. Reconnects after temp drops below the release value.
Charge under temp	1 °C	5 °C	2	Cuts off charging current if the probe temp drops below the trigger value. Reconnects after probe temp rises above the release value.
Discharge over temp	85 °C	75 °C	2	Cuts off discharging current if the probe temperature exceeds the trigger value. Reconnects after temp drops below the release value.
Discharge under temp	-10 °C	0 °C	2	Cuts off discharging current if the probe temp drops below the trigger value. Reconnects after probe temp rises above the release value.



App Settings



BMS Settings



Current Cal.



Voltage Cal.



Notifications