This Hall Effect Coulometer can measure all kinds of battery percentage of residual electric quantity. It could display "Percentage of residual electric quantity". The power supply voltage range is DC5～120V.It can be very convenient for power supply; you can connect directly to the battery for supply and measure

- "Charging capacity"
- "Discharge capacity"
- "current"
- "voltage"

Hall effect coulometer technical parameter

Model	
WLS-DVA100	
WLS-DVA200	
WLS-DVA400	
Current Range	
0～100A	
0～200A	
0～400A	
Current Resolution	
0.2A	
1A	
1A	

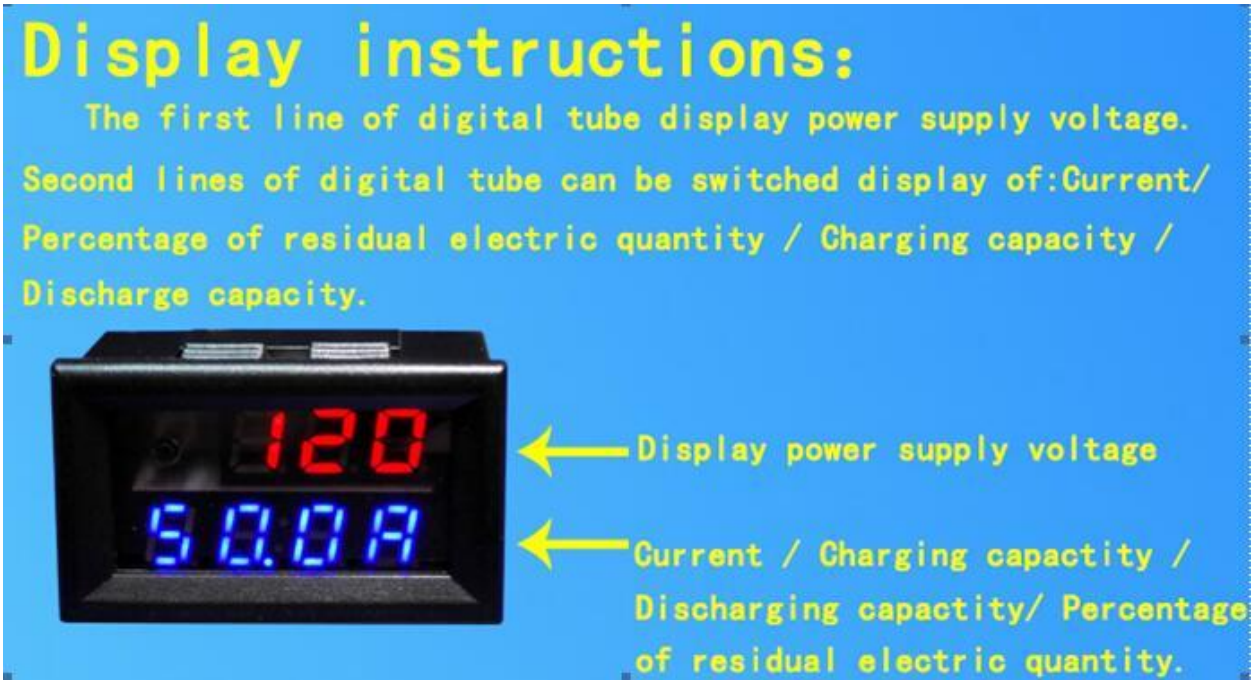
Current Accuracy
±1%
Voltage Range
5～120V
Voltage Resolution
0.1V
Voltage Accuracy
±1%
Capacity Range
0～999AH
Capacity Resolution
0.1AH
Capacity Accuracy
±1%
Panel Size
48mm*29mm*23mm
Hall Sensor middle hole size
Φ20mm

1.Connection description

（1）The red power line is connected to the positive electrode of the battery; the black power line is connected to the negative electrode of the battery. （**Note: Supply voltage cannot exceed 120V**）.

（2）The electric wire by pass it through the hole of hall current sensor to measure passing current. Make the triangle mark on the sensor point to the direction of charging current. When the sensor is installed correctly, the positive current is displayed when the battery is charging, and the negative current is displayed when the battery is discharging. If not, then you put the direction of the sensor to do the opposite, you just have to turn the sensor on the other side.

2.Display instructions



3.Button instructions

Button according to the length of time, there have three kinds of functions:

【1】Short press：Press the button time: T<1S.It is used to switch the display mode.

【2】Long press：Press the button time: 1S<T<4S. It is used to: clear current/clear accumulation capacity/fill percentage of residual energy to 100% or clear to 0%.

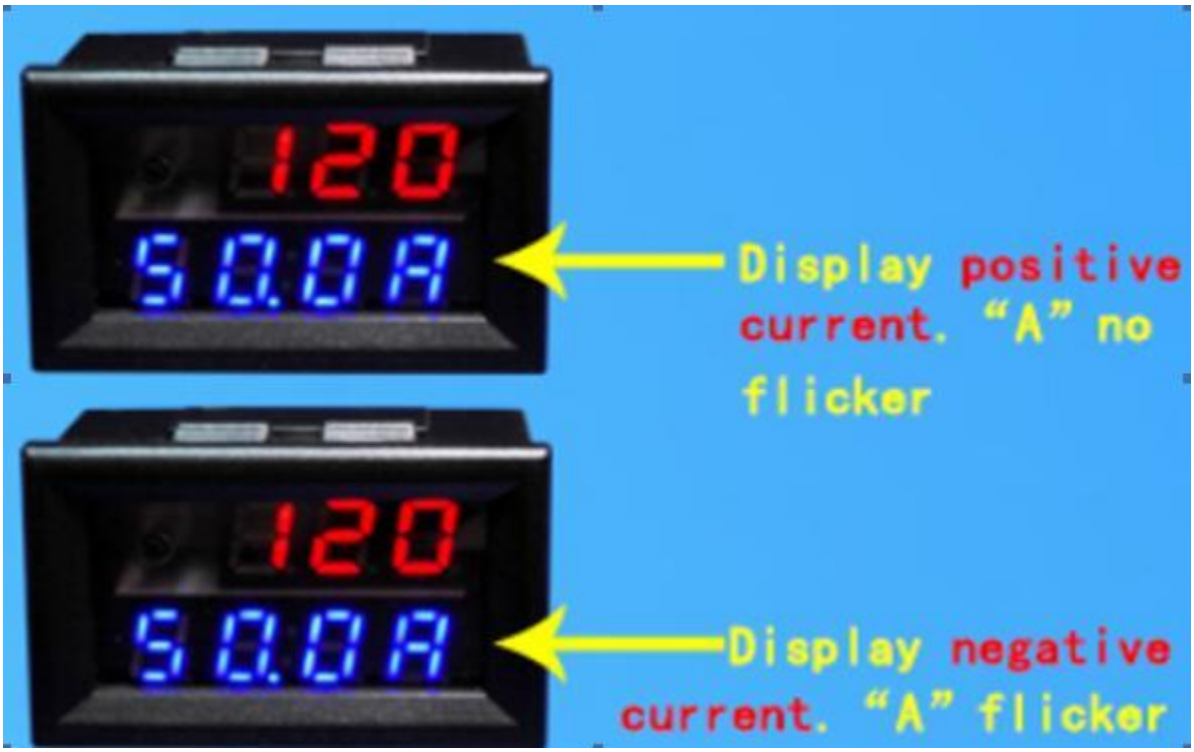
【3】Super long press：Press the button time: T>4S。It is used to enter setup menu.

4.Display mode switching method

In standby state, short press the button, you can switch for difference display mode.

【1】 the button, the screen will display two seconds. Indicates now is the current display mode. The right of the LED will display the current unit “A “when in the current display mode. The current unit of “A” does not blink when the positive current is displayed, and the negative current is constantly flashing. **Short press “A”**

In the current display mode, the long press of button will be cleared the current. (Note: It must be at zero current when cleared).

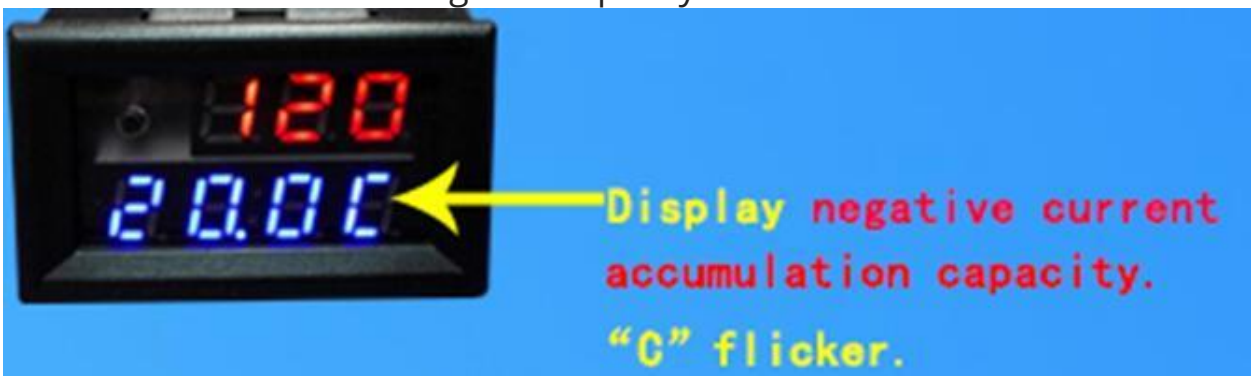


【2】 the button again, the screen will display two seconds. Indicates now is the display mode of the cumulative capacity of the forward current. When display the positive capacity the right of the LED will show “C”, and this "C" won't blink. (Note: the unit of the capacity value is AH). **Short press “AH”**

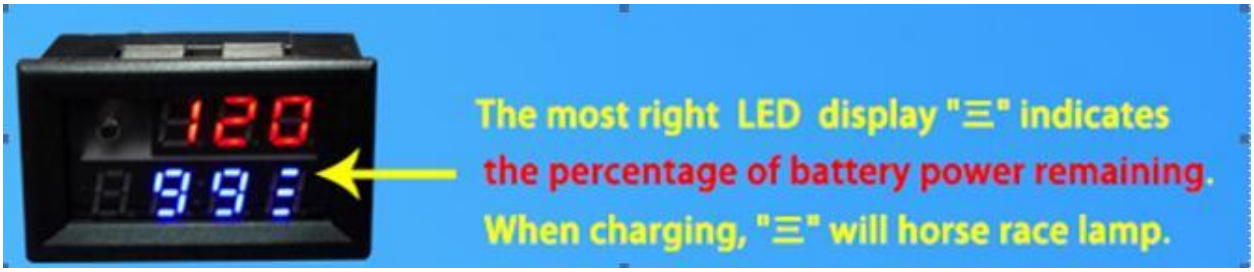
When the positive capacity value is displayed, the long press of button can be clear cumulative positive capacity

【3】 the button again, the screen will display two seconds. Indicates now is the display mode of the cumulative capacity of the negative current. When display the negative capacity the right of the LED will show “C”, and this "C" will keep flashing. (Note: The unit of the capacity value is AH). **Short press “- AH”**

When the negative capacity value is displayed, the long press of button can be clear cumulative negative capacity.



【4】 the button again, the screen will display two seconds. Indicates now is the display mode of the percentage of residual electric quantity. When display percentage of residual electric quantity the right of the LED will show “☰”. It will horse race lam when the charging current is more than 0.5A. Short **press “PC”**
When the percentage of residual electric quantity is displayed, the long press of button will be clear percentage of residual electric quantity to 0% or fill it for 100%



【5】 the button again, the screen will display two seconds. Indicates now it is rotation display mode, it will rotation display the percentage of residual electric quantity and current. The cycle is three seconds. **Short press “A PC”**

5.The battery rated capacity value setting method and the battery percentage automatically fill voltage value setting method

In standby state, the button then after release the button you will entering the set menu. In this menu you could short press button to switch “1-C”or “2-U”.Its function is to set the battery rated capacity of“1-C”.Its function is to set automatic fill power voltage of“2-U”.And button your will enter the function menu of your select. **Super long press (Note: more than four seconds) long press**

【1】Enter “1-C” the battery rated capacity settings menu，LED will blink display of “XX.XC”.And then press the button the value will always increase. Then Release the button, press the button again the value will always decrease. Until set to the value of you need. When don't press the button within five seconds, the screen will stop flashing and save the rated capacity data.

【2】Enter“2-U”the battery percentage automatically fill voltage value settings menu，LED will blink display of “XX.XU”.And then press the button the value will always increase. Then Release the button, press the button again the value will always decrease. Until set to the value of you need. When don't press the button within five seconds, the screen will stop flashing and save the voltage value data. Suggest this voltage value is set to the highest voltage value when the battery is charged with full power. When this voltage was set up, after a full charge, the remaining battery power will automatically fill percentage was 100%.This function can be removed from the user to manually fill the battery percentage for 100%.

Why is it necessary to have automatic fill? Because of the charge and discharge of consumption does not equal, so the cycle charge discharge after a few times of the remaining battery power percentage is not accurate, so it is necessary to automatically fill function