



Lithium battery balance charger CB86-PLUS

User Manual



 **Warning : High powered product ,please use it within sight !**

一、Function:



CB86S Technical data:

Input Voltage: Voltage range 10.5-15V(The charge will not work with wrong input power polarity, warning when input power voltage over 15V and less than 10.5V, temperature over 48C° will auto-start fans)

Voice Indicator: ON/OFF

Time setting: Charging or discharging time from 0 to 99 minutes and 59 second

Charging Mode: Cycle charging, parallel charging, discharging, voltage measure

Charging voltage: 0.00V-4.23V, setting precision 0.01V;

Discharging voltage: 2.00-4.23V, setting precision 0.01V;

Charging current: 0.0-6.0A, setting precision 0.1A;

Discharging current: 1.05A

二、Operation:

1、Connection

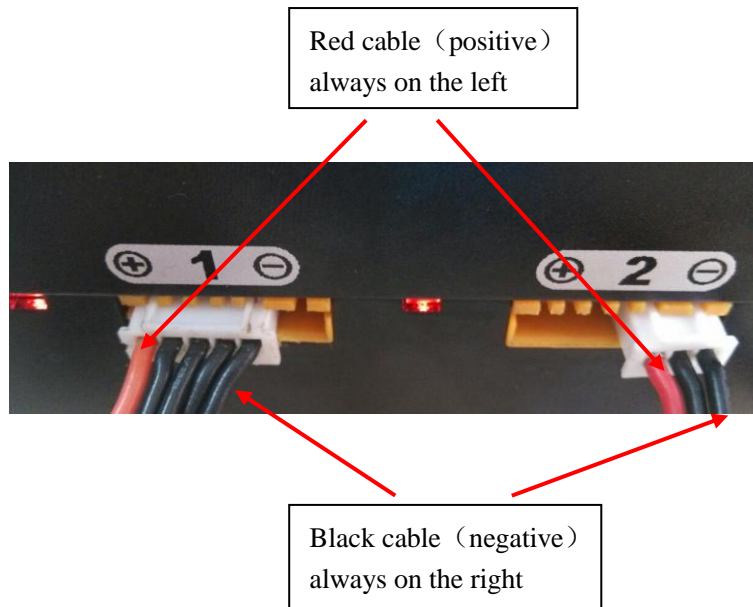
Connect the charger with a DC power source of output voltage 10.0-5V and current not less than 15A.

Balance plug:

CB86S contains 8 balance ports, it can charge 8pcs 6-cell Lithium battery at the same time connecting 1S-6S batteries freely by the following sketch. Mind the polarity of

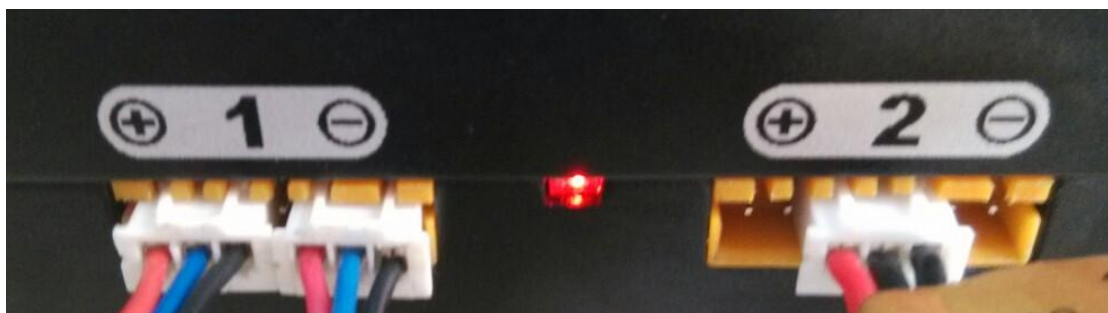
batteries (black cable is negative and it shall connect with right side, the red positive connecting to left side.)

Diagrammatic sketch:



The above sketch is shown by a 4-cell and a 2-cell batteries connected in two ports. Also you can connect a 6-cell battery in one port, or 3 pcs 2-cell in different port, or 2pcs 3-cell batteries to different port. Shown by sketch below:

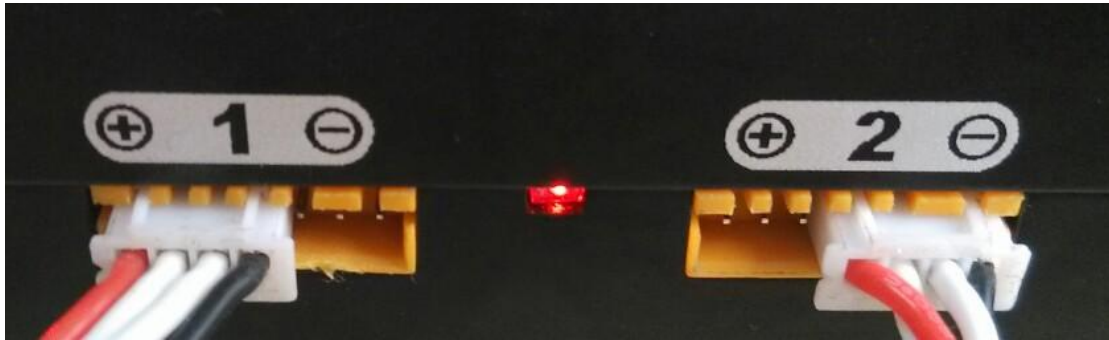
(1) connect with 3pcs 2-cell batteries:



(2) connect with one 6-cell battery:



(3) connect with two 3-cell batteries:



2、 Button instruction:

START/STOP:

To start or stop the current status, it is available at any time, so it's important to finish all parameter (voltage and current) setting for charging or discharging before press this button.

SET:

Only the charger is not working, this button is enabled. Press SET to enter menu of setting for VOICE, FUNCTION, CURRENT, VOLTAGE and BETTERY GROUP. When one of the options displayed reversed, use the button key “+/ \blacktriangle ” or “-/ \blacktriangledown ” to get the relative data.

Voice indicator:

When the charging stopped, press SET to choose the option VOICE INDICATOR, and use “+/ \blacktriangle ” or “-/ \blacktriangledown ” to set voice ON or OFF. Then press SET to choose the next option.

Charging port:

When the charging stopped, press SET to choose the option PORT, press “+/ \blacktriangle ” or “-/ \blacktriangledown ” to choose the port and then press SET for next option.

Function:

When the charging stopped, press SET to choose FUNCTION, press “+/ \blacktriangle ” or “-/ \blacktriangledown ” to select different status: CYCLE CHARGING, PARALLEL, DISCHARGING, VOLTAGE MEASURE, and then press SET for next option.

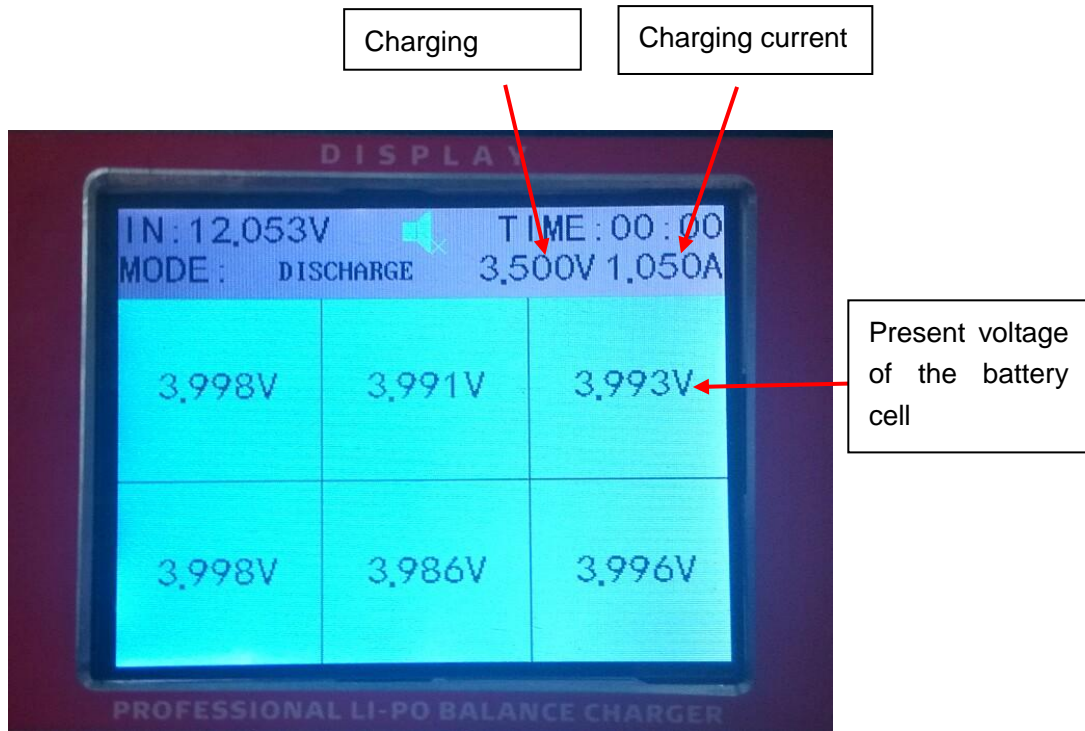
Voltage and current setting:

When the charging stopped, press SET to choose the option VOLTAGE/ CURRENT, and then press “+/ \blacktriangle ” or “-/ \blacktriangledown ” to set voltage and current, then press SET for next option.

3、 Operation

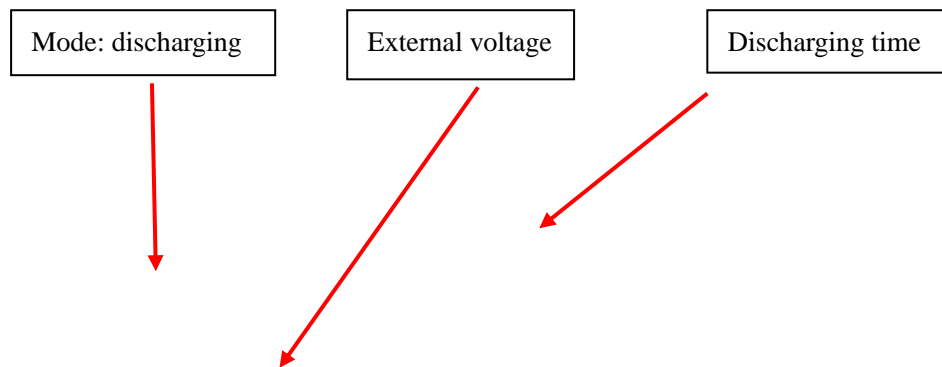
Connect the charger with a DC power source of output voltage 10.5-15V and current not less than 15A, and then connect a 6-cell battery with it, power on the charger.

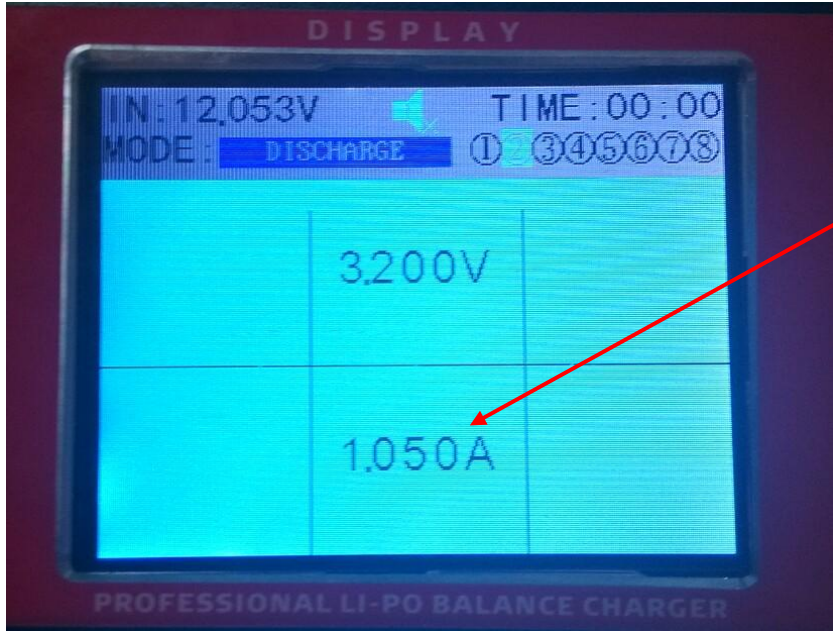
(1) Interface powered on



1

(2) Press the key SET, set the mode CHARGING or DISCHARGING. Press the key “+/\u25b2” or “-/\25bc” to set voltage of discharging. Below sketch shows discharging setting interface: (discharging current is not settable, and charging voltage and current can set by yourself)



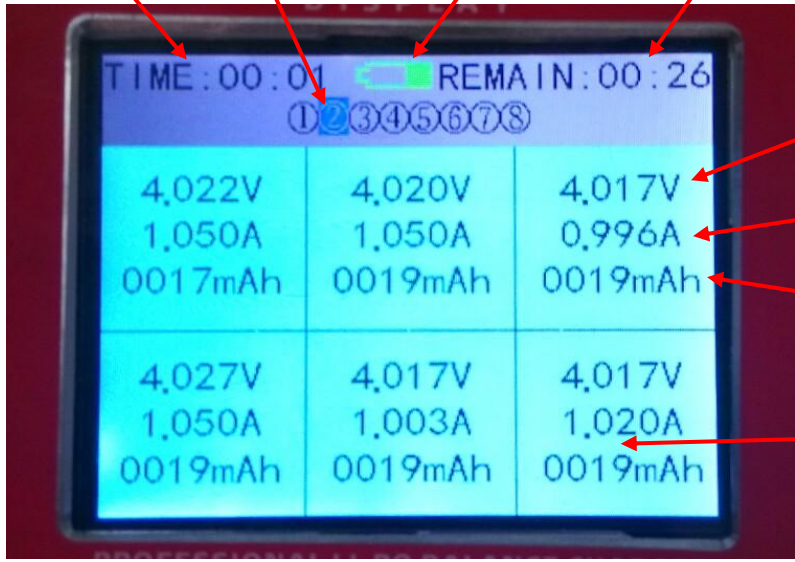


Discharging current is a fixed value (in charging mode, you can set the current)

2

(3) Press the key STOP to pause the present status, and press the key SET till the cursor comes to MODE, then press the key “+/\u25b2” or “-/\u25bc” to change the mode CHARGING, and press the button START to start charging. Below is charging interface:

Time charged Port charged Charging status mark Time left



Cell voltage

Cell charging current

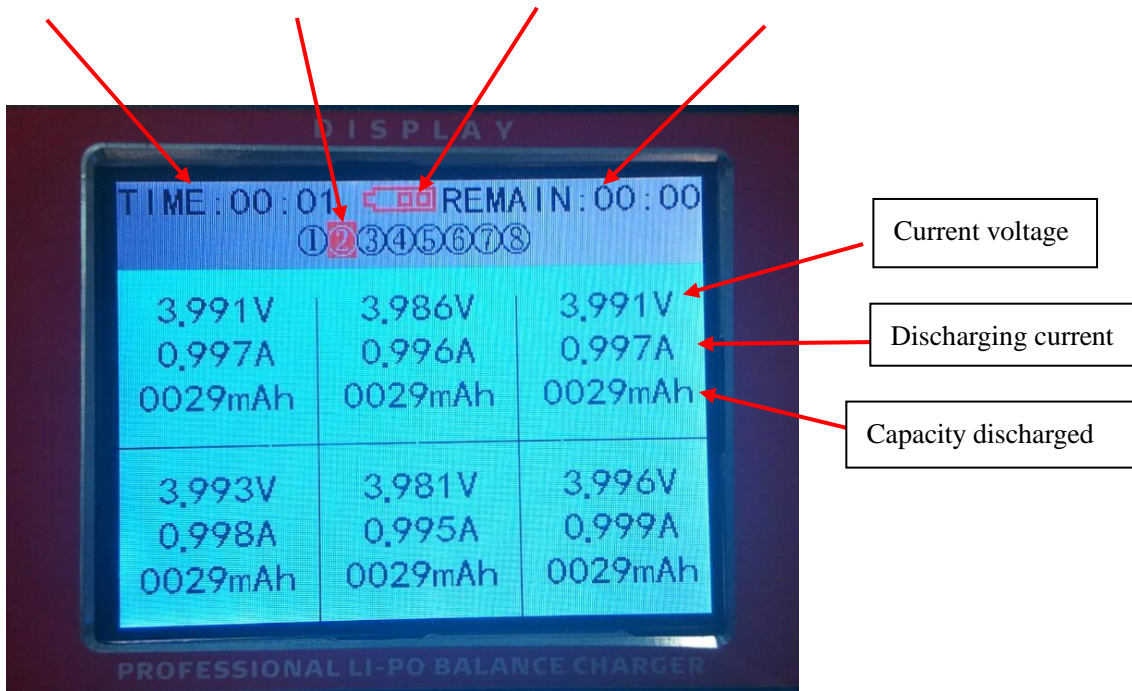
Capacity charged

Cell charging status

3

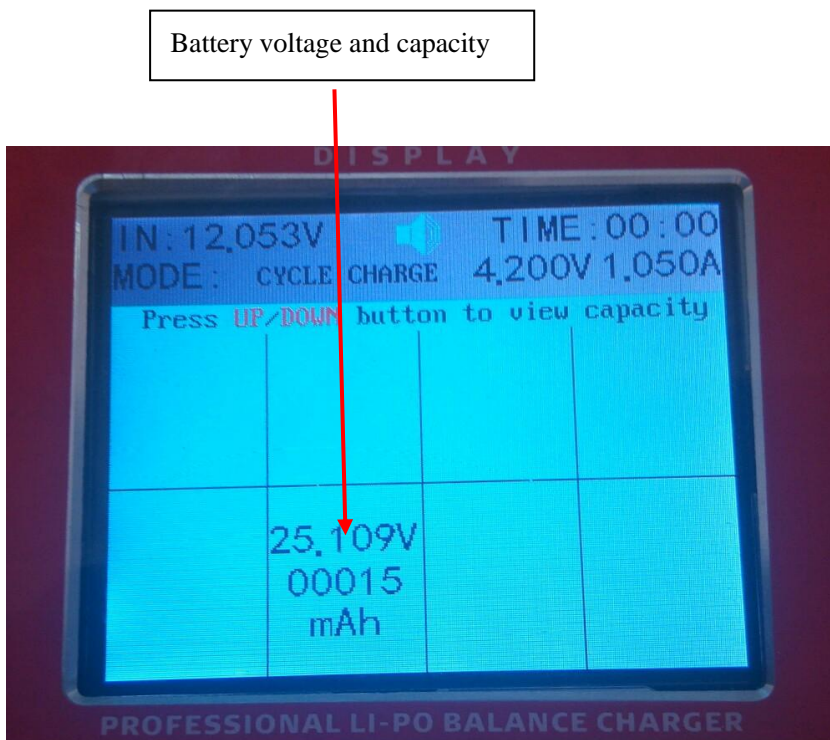
(4) press the button key STOP to pause the present status, and press SET till the cursor comes to MODE, then press“+/\u25b2” or “-/\u25bc”to choose mode DISCHARGING, and press the button key START to start discharging, shown as below:

Discharging time Discharging port Discharging mark Discharging time left



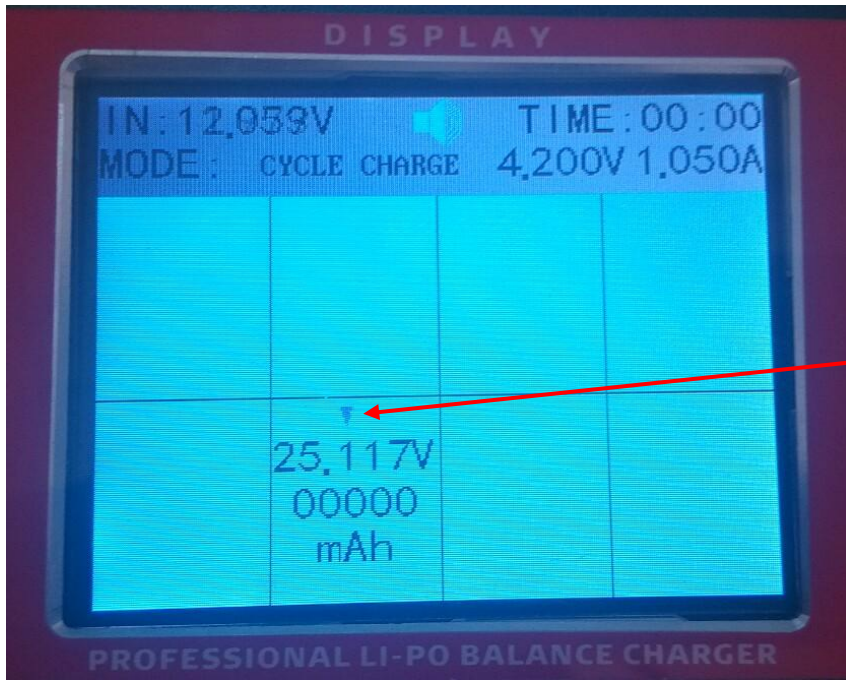
4

(5) When charging or discharging finished, press the button key STOP to check present voltage and current and every battery cells capacity. Below shows the interface:



5

Press the button “+/\u25b2” or “-/\u25bc” and now the cursor \u25bc shift from every port. All of the checks display the relative port batteries capacity. Below shows the current port battery status:

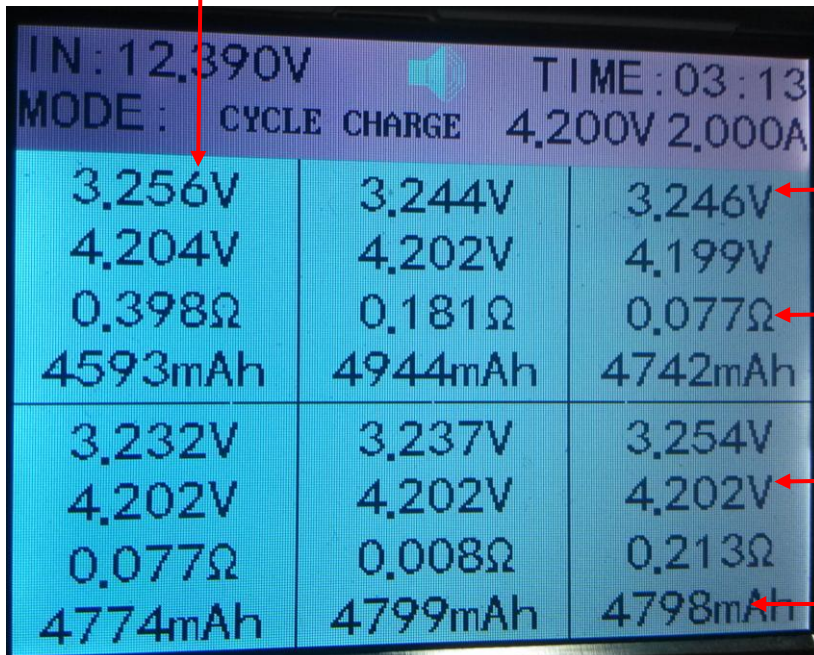


press “+ / ▲” or “- / ▼”
 and the cursor ▼ shifts
 from different ports

6

And then press SET to find battery capacity of different cells. See the below sketch:

Each cell represents the port is a
 power-saving core rechargeable battery
 case



Initial voltage

Cell resistance

Current voltage

Charged capacity

7

And then press the button key START to return to charging status.

NOTE: 1) on the status shown by sketch 7, press SET to go back to the interface shown by sketch

6, and press “+ / ▲” or “- / ▼” till the cursor ▼ disappeared, or the voice indicator enabled, now press the key SET to go back to the sketch 2 to set voltage and current and charging mode etc.

2) On the interface shown by sketch 7, press “+ / ▲” or “- / ▼” to find other port batteries capacity.