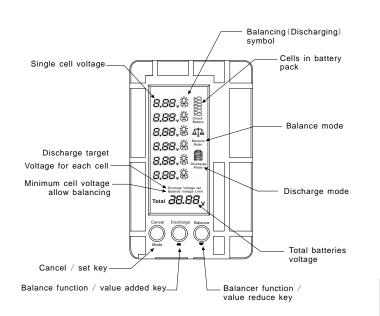
Li-Polymer/Li-Fe Battery Balancer

Balance/Discharge voltage setting method:



Balancer screen and key position drawing

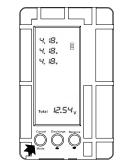
Product instruction:

The Balancer/Discharger is designed for Li–Polymer and Li–Fe battery, it can measure battery voltage precisely and balance cell voltage in battery pack, or discharging battery for long time storage.

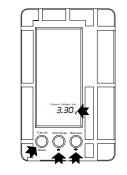
The balance function can be executed before / after battery charged. It also can be done during battery charging process. It makes sure battery pack Keeping in excellent condition.

User could observe all cell voltage in whole battery pack at once. It helps user to find out which cell is abnormal during charging or discharging process.

Due to Li-polymer & Li-Fe battery are high energy density and high discharge ability storage, before using this equipment, you must be patient to study this instruction to keep from wrong operation or setting making battery damaged or other danger.



1. Under standard mode, Push Mode key to start setting mode



3. While discharging the permitted lowest voltage

generally be setted to battery stored voltage, the

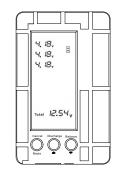
voltage value, please inquiry battery supplier. Pre-

setting is 3. 9V (it only fit for general Li-Polymer

Push rightarrow or rightarrow key, it can change voltage setting,

after setting push Mode key and return standard

battery, about Li-Fe battery please inquiry battery



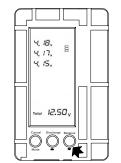
4. Return to standard mode

P. S.During the setting procedure, if don't want to change the setting value, you can continue to push "Mode" Key to go on next setting mode or return standard mode. While setting the balance voltage or discharge voltage, please be aware not to set the voltage below the permitted lowest voltage, or you may damage the battery due to over-discharge. Please inquire the discharge cut-off voltage from battery supplier.

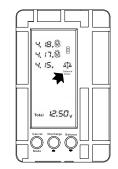
supplier)

mode.

How start to balance battery?

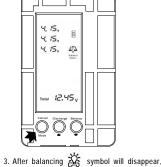


1. Push Balance key.



2. Balancer will take the present lowest voltage battery as a benchmark, start to balance action to battery cell.

Tey will show flash a signal when battery cell working.



4. Return to standard mode

P. S. In balancing, you can push Cancel key anytime to break and back and to standard mode

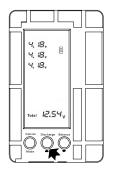
then you can push Cancel key to quit balance

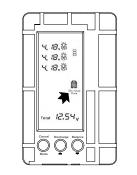
P. S.After push Balance key, balancer will automatically catch the lowest single battery voltage as standard among battery cell and start to execute balance function. Until all battery cell voltage value are equal. (voltage tolerance $\pm 0.01V$ is equal, for example standard voltage 4. 15V, after balancing the voltage maybe 4. 14V or 4. 16V)

mode.

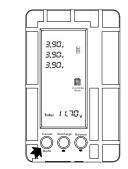
The balancer can be used together with serial charger while charging, However, for safety reason, Please watch votage condition in screen, if the voltage variation looks abnormal or "Check Battery" is appeared, please stop charging immediately in order to avoid danger !!

How to start battery discharge?



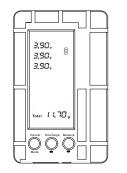


2. Disharge Mode show 🔆 symbol start flash, it means start discharge mode.

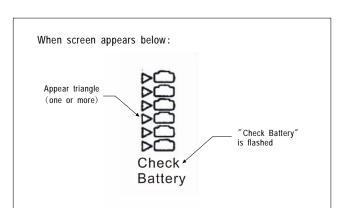


3. When battery voltage down to above setting value, 🔆 signal will disappear, it means discharge is finished, push Cancel key to quit discharge mode.

P. S. You can push Cancel key to stop discharge in anytime.



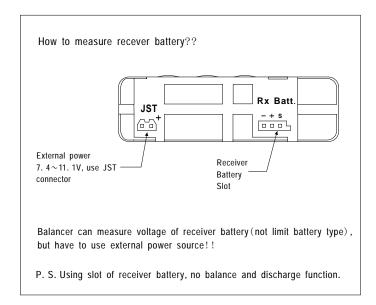
4. Return to standard mode.



When battery voltage is different above 0. 2V, The screen will appear "Check Battery", please check your battery!!

P. S. When "Check Battery" appeares, it can't balance or discharge.

P. S. The default setting for discharge cut-off voltage is 3. 9V (single Li-Polymer battery). You may adjust the cut-off voltage by youself. Please inquiry battery supplier for storage voltage, if you use Li-Fe battery please inquiry supplier and then setting.



Product Specification:

Outline Dimension: 93.5 X 60 X 17mm

Measureable battery type and amount:

Li-Polymer/Li-Fe 2~6 Cell (standard voltage 7. 4V \sim 25. 2V using divided voltage connector)

Receiver battery 1. 2V ${\sim}12V$ DC

(Not limit battery type, but need external power 7. 4 \sim 25. 2V, use JST connector)

Balance voltage setting range (lower limit) :

2. 0V \sim 3. 9V (pre-setting value 3. 3V)

Discharge voltage setting range (lower limit) :

3. 0V \sim 4. 2V (pre-setting value 3. 9V)

1. Push Discharge key