Matek Systems

MANUAL

LIPO CELL CHECKER
LOW VOLTAGE ALARM

SKU: BB6L

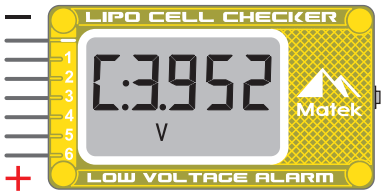
BB6L features 12bit MCU & a segment LCD screen that will show the total voltage & cells voltage of LiPo pack with 1mV resolution. It also features twin loud buzzers to notify you once the cells reach a user defined voltage. The lowest cell voltage can be recorded also.

Features

- Use for 2～6cells Lipo or LiFe.
- Low power MCU with 12bit ADC.
- Low voltage alarm & threshold setting.
- The lowest cell voltage can be recorded.
- Segment LCD screen, Clear display.
- Twin loud buzzers, 85db each.
- Reverse polarity protection.

Specifications

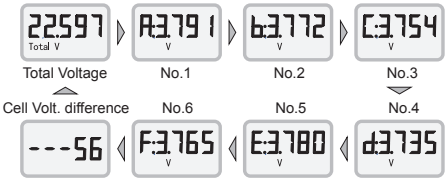
- Working voltage range: 5~27V DC
- Alarm set values: 2.7~4.0V /cell or OFF
- Voltage resolution: 1mV
- Voltage precision: +/- 0.25%
- Standby current: <10mA
- Pins distance: 2.54mm
- Size & Weight: 25x44x7.5mm, 12g



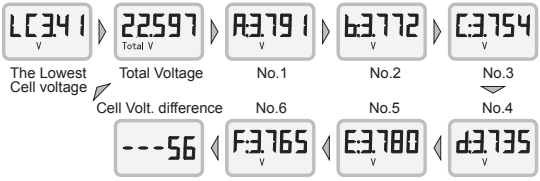
How to Use

If the Input voltage is under 5V, no display on the LCD.
If the Input voltage is above 27V. the BB6L will be hurt.

1. Connect the LiPo balance adapter to the Pins of BB6L
   - If the polarity is reversed. no display on the LCD screen.
   - If the LiPo pack is below 6 cells, pls connect the balance adapter from the cathode(-) side.
   - After the BB6L detect right input, LCD screen will show the total voltage(Total V), unit voltage(1st to 6th) & cell voltage difference(--mV) to cycle automatically.
   - Press the button to show the voltage values manually.
   - Because of the time difference of connection between Pins & LiPo balance socket, Maybe the voltage value of first cycle is not correct. It will be correct from the 2nd cycle.



2. Set the Alarm values
   - Hold the button 3 seconds to enter the setting.
   - Alarm voltage can be set between 2.7V~4.0V/cell in 0.1V increments by pressing the button, Alarm function can also be set as OFF. Default is 3.3V
   - The value will be saved & exit if no action within 5 seconds.

3、Low voltage alarm & The lowest cell voltage
   - During the using of LiPo, BB6L will detect the voltage always.
   - If the cell voltage is below the Alarm value, the alarm will be triggered with "Be..Be..Be..Be....", and the lowest cell voltage will be flashed.
   - If the alarm be triggered, the alarm value still can be set by holding the button 3 seconds.
   - If the cells voltage rise again, the alarm will be suspended, and the lowest cell voltage still be shown。
   - Press the button to show total voltage, unit voltage, cell voltage difference & the lowest cell voltage to cycle manually.

L=Lowest
C=No.3