



CHARGERLY LiPo watcher BS6 v5.0

For 2S – 6S LiPo Battery

Chargery Battery Watcher BS6v5.0 is latest watcher for your LiPo battery applied to helicopter; High light red LED and louder beeper (95Db) make sure your flight safety. You can set up warning time, delay time and warning time by pressing the button easily.

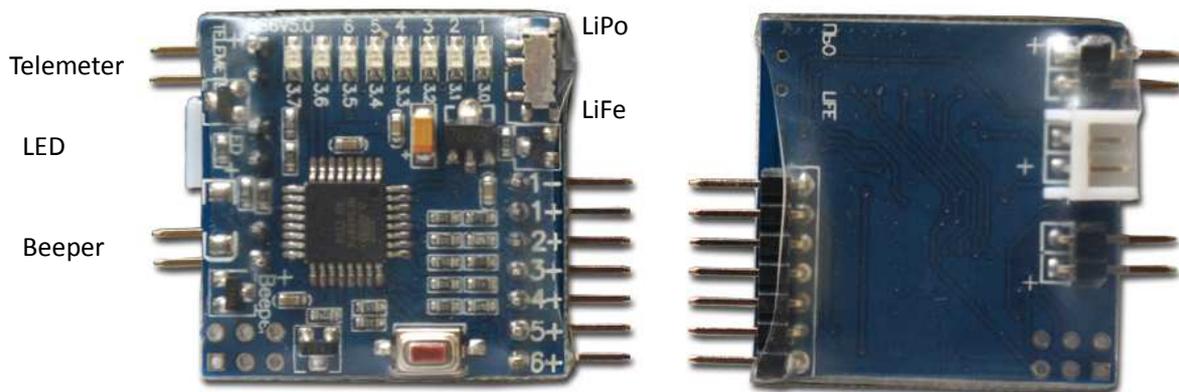
Version: V5.0

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New Features:

1. Support LiFePO4 cell warning voltage setup. A switcher alternate battery type.
2. Add a telemeter port to connect to the receiver, when any warning events happen, the transmitter can sense the warning events. When start warning the telemeter port will output 5V, if no warning, it will be 0V.



The unit can detect each cell voltage in 2S-6S LiPo battery pack during discharge, it can sound warning and LED warning while any cell voltage under setup value, and prevent any cell from over discharged.

The unit includes reverse polarity detection, and 2.54mm pin distance balance connector for all kinds of battery.

Specifications:

- Battery range: 2S-6S LiPo & LiFe
- Over discharge warning cell voltage: 3.0~3.7V for LiPo and 2.1V~2.8V for LiFe, (steps 0.1V)
- Delay time when start to warn: 0s, 0.5s, 1s, 1.5s, 2s, 2.5s, 3s, 3.5s
- Warning time range: 1s, 2s, 3s, 4s, 5s, 10s, 15s, 20s
- accurate scope of the warning voltage: -10mV/+10mV
- Pins distance: 2.54mm
- Size: 33*33*10 (L*W*T, mm)
- Weight: 12g
- Warning LED: 11000mCd, @ 2.0V, 20mA
- Warning beeper: 95dB @ 12V, 25mA
- Beeper wire: 300mm, beeper is welded on the watcher directly for another version.
- LED wire: 300mm, LED is welded on the watcher directly for another version.
- Package: transparent heat shrink tube

Program setup

Before flight, you can set up warning voltage, delay time and warning time. The large LED must be connected to the unit, if the beeper is also connected to the watcher, it will sound in different setup mode.

1. Move the battery type switcher to the correct position
2. Connect the large LED to BS6.
3. Connect BS6 to any battery from 2S to 6S LiPo or LiFePO4.
4. Press button for 3 seconds, when the small LED flash, you can press the button shortly set up the warning cell voltage range from 3.0V-3.7V for LiPo, 2.1V-2.8V for LiFe. For example, if the 3.2V LED flash, it means the warning voltage is 3.2V for LiPo, or 2.3V for LiFe. **Default value is 3.5V for LiPo or 2.6V for LiFe.**
5. Pressing the button for 3 seconds again confirm the change and enter into the delay time setup mode.
6. When large red LED flash, press the button shortly set up the delay time for warning, when any cell voltage under the value (set up in step 1), BS6 will wait for a delay time and then beeper. The delay time range from 0s(3.0V LED), 0.5s(3.1V LED), 1s(3.2V LED), 1.5s(3.3V LED), 2s(3.4V LED), 2.5s(3.5V LED), 3s(3.6V LED), 3.5s(3.7V LED). **Default value is 0.5s.**
7. Pressing the button for 3 seconds again confirm the change and enter into warning time set up mode.
8. When large red LED ON, press the button shortly set up the warning time range from 1s(3.0V LED), 2s(3.1V LED), 3s(3.2V LED), 4s(3.3V LED), 5s(3.4V LED), 10s(3.5V LED), 15s(3.6V LED), 20s(3.7V LED). **Default value is 10s.** Press the button for 3 Seconds to confirm.
9. When finish setup, the unit will remember till change the value next time.

Set up mode		8 small LEDs								Small LED	Large LED
Warning voltage	LIPO	3.0v	3.1v	3.2v	3.3v	3.4v	3.5v	3.6v	3.7v	flash	OFF
	LIFE	2.1v	2.2v	2.3v	2.4v	2.5v	2.6v	2.7v	2.8v		
Delay time		0.0s	0.5s	1.0s	1.5s	2.0s	2.5s	3.0s	3.5s	flash	flash
Warning time		1.0s	2.0s	3.0s	4.0s	5.0s	10s	15s	20s	flash	ON

Within the warning time, the BS6 will beep loudly every 0.5s and the large red LED will flash every

0.5s till the cell voltage under warning voltage again, and the watcher will start a new warning time.

If the cell voltage is still under warning voltage, the watcher will beep and flash repeat for the warning time.

Anytime press the button stopping warning.

Operating guideline

1. Connect the battery to BS6, keep the battery polarity correct.
2. The BS6 will initialize the beeper and all LEDs, beeper sounds once time, warning LED flash once time, and all small LED indicator (8 **RED** LEDs) will ON and then OFF, the number of "ON" LED indicates the cell number. For example there will be 4 LEDs ON for 4S battery.
3. 1 second later, only one LED is ON, the LED indicates the lowest voltage cell. For example, if third LED is ON, it means the third cell voltage is lowest in battery pack.

In flight, BS6 can alarm loudly and a large WANING RED LED flash when any cell voltage under setup value.

Warranty and Service

Chargery Power Co., Ltd. as manufacture of R/C model power warrants its CHARGER power charger and battery pack to be free of defects in material and workmanship. This warranty is effective for 12 months from date of purchase. If within the warranty period the customer is not satisfied with the products performance resulting from a manufacturing defect the accessory will be replaced or repaired.

Your selling dealer is your first point of contact for warranty issues. Return postage costs are the responsibility of the user in all cases. Please submit copy of original receipt with the return.

Damage due to physical shock (dropping on the floor, etc.), inappropriate power supply (unstable output voltage and insufficient power, etc.), water, moisture, and humidity are specifically NOT covered by warranty. It is best to carefully check your charger before considering returning it as problems in setup, cabling, or power supply are much more common than defects in the charger. If there is damage stemming from these causes within the stated warranty period, the company will, at its option, repair or replace the charger for a service charge not greater than 50% of its then current retail list price.



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