

# 1S 3.5A Brushless ESC manual

## Parameter :

Voltage: 3.0-4.2V

Output current:3.5A( instant maximum current4.0A)

Weight:0.3g

## 1,Features:

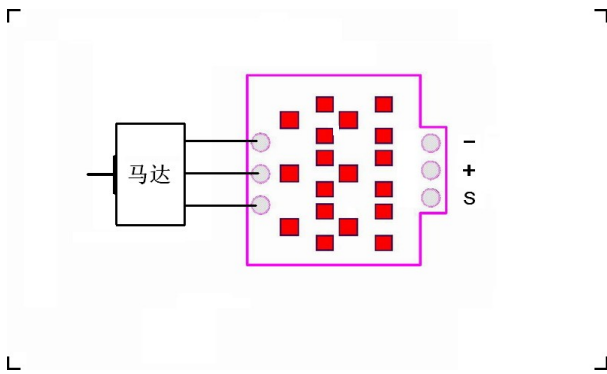
- \* Safe protection for connecting power, no matter what position the throttle stick is when the power is turn on, the ESC won' t start the motor instantly;
- \* Throttle signal lost protection, if signal communication between the transmitter and receiver is not good or not stable and causes lost control, the ESC will cut off the power within 2 seconds softly, and if the signal is found during this period, the output power will recover and the ESC will continue its normal working state;
- \* Overheat protection, the ESC will limit its output power when the temperature reaches 95°C,if the temperature continues to increase, the ESC will cut off the power slowly, only the temperature is low enough can the ESC be powered up and return to normal working state;
- \* Low voltage protection, when the input is less than 3.0V or more than 4.4V,theESC will enter protection mode, this function only workable when the power is connected;
- \* Lipo battery protection, when the battery voltage is lower than 3.0V, the ESC will cut off the power slowly, as soon as the voltage is more than 3.0V, connect the power and it returns to normal working;
- \* Block protection, if the prop is blocked, the maximum limitation power output will be 36%;

## 2、Throttle setup

Initial full throttle position is 1850us, the bottom throttle position is 1200us, it can automatically detect the bottom throttle position as soon as the power is connected, the followings are for throttle setup order, from the way the full throttle position can be recorded permanently:

1. Push the throttle to full position, connect the power and wait for 4 seconds, it makes a long beep and the maximum throttle range is recorded.
2. Pull the throttle to lowest position, wait for 0.5 second, it makes 3 short beeps and the lowest throttle recorded.
3. When it makes several beeps, it indicates the self-test has been done, the ESC is ready for work.  
The detected range of lowest throttle is0.8ms~1.2ms, and the detected range of full throttle is 1.8ms~2.3ms.

## 3、Diagram of connection:



#### 4、Explanation for warning(alarm) beeps

Signal lost protection: it makes one beep each second.

Overheat protection: it makes 3 beeps each second.

Low voltage protection and lipo protection: it makes 1 beep for each 2 second.

The stick is not on the lowest position when it connects power: it makes 1 beep each second.