

# 中特威外置式8A UBEC使用说明书

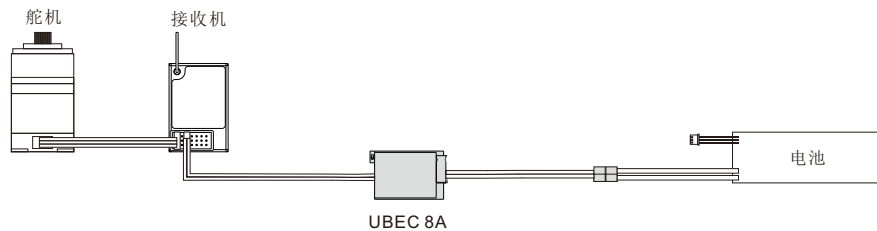
## 1.规格

规格	单入单出	双入单出	双入双出
(1). 降压型开关BEC	✓	✓	✓
(2). 输入电压：7V—21V ( 2—5S锂电池组或6-15节镍氢/镍镉电池组 )。	✓	✓	✓
(3). BEC输出电压：5.0, 6.0V/8A可调,(5.0/6.0V通过开关调节)。	✓	✓	
(4). 双路输出电压：一路5.0V, 6.0V/8A可调,(5.0V/6.0V通过开关调节,) 另一路7.4V/8A。			✓
(5). 尺寸和重量：53*37*10.5MM (长*宽*高)，42g。			✓
(6). 尺寸和重量：50*27*10.5MM (长*宽*高)，33g。	✓	✓	
(7). 输出电流：持续输出电流8A，峰值输出电流15A。	✓	✓	✓

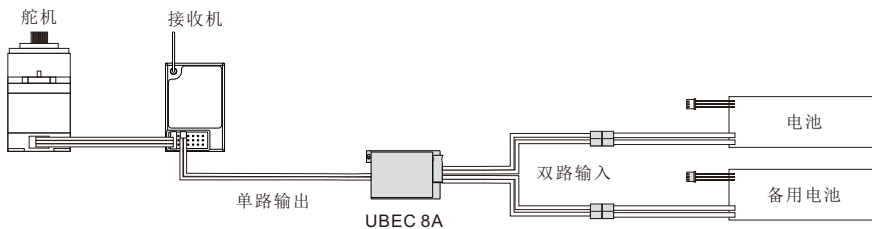
## 2.特点

特点	单入单出	双入单出	双入双出
(1). 双路输入保护功能：当同时使用主电源(Main)和备用(Backup)电源时，如果主电源电压丢失或电压比备用电源电压低0.5V,主电源会自动停止工作并会切换至备用电源，使UBEC可以继续正常工作。在后续的工作过程中，当两个电源的电压差超过0.5V时，彼此会相互自动切换并循环工作。		✓	✓
(2). 双路输出功能：具有能够独立工作的双路8A输出。其中一路5V/6V可调，适用于给接收机或者飞控供电；另一路7.4V可给相关设备供电，比如多轴云台，图传系统，LED灯等。			✓
(3). 具有过流保护，过温保护，输出端短路保护等功能，安全可靠。	✓	✓	✓
(4). 具有工作指示灯状态，当UBEC正常工作时LED蓝灯亮。	✓	✓	✓
(5). 采用大功率，高效率芯片，转换效率超过90%。	✓	✓	✓
(6). 具有屏蔽盖，BEC输出线带有磁环，极大的提高散热和减少电磁干扰。	✓	✓	✓

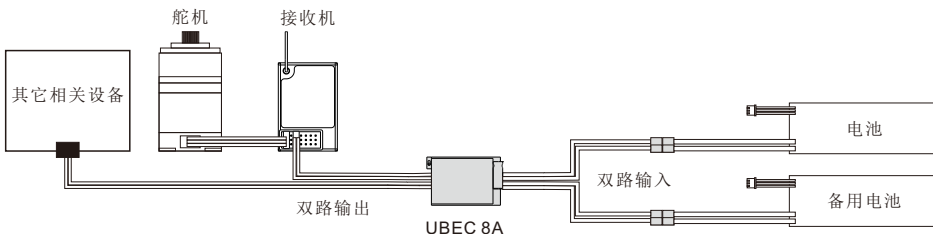
### 单入单出



### 双入单出



### 双入双出



## 3.使用方法

- (1). 使用OPTO电子调速器必须外接BEC ( UBEC )  
无刷电子调速器不需要任何更改，只要将UBEC电源的正负极和电池组并联，输出端插入接收机一个空闲通道即可，根据需要来设置您所需的UBEC输出电压。
- (2). 用内置BEC电子调速器连接UBEC使用方式  
将BEC电子调速器信号线中红色线断开，也就是将BEC无刷电子调速器自身的BEC输出断开。再连接UBEC ( 同OPTO无刷电子调速器使用方法一样 )。

## 4.注意

- (1). 双路输入使用单独电源时，必须连接主电源(Main) 否则UBEC不能工作。
- (2). 使用双路输出时，额定负载电流不能超过8A，否则会损坏UBEC。
- (3). 因天气、场地原因，如有干扰，请把您的UBEC安装位置离开接收机至少5CM以上距离。

# ZTW 8A UBEC User Manual

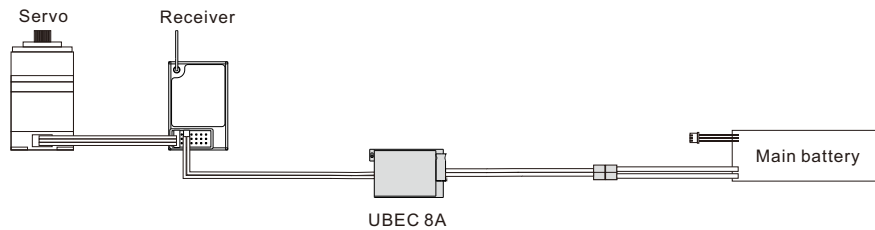
## 1. Specification

Specification	Signal Input & Output	Double Input & Signal Output	Double Input & Output
(1). Switch-mode buck regulator.	✓	✓	✓
(2). Input Voltage : 7V—21V ( 2—5Lipo ) .	✓	✓	✓
(3). Output Voltage :5.0V,6.0V/8A adjustable.	✓	✓	
(4). Output Voltage :5.0V,6.0V/8A and 7.4V/8A adjustable.			✓
(5). Size & Weight : 53*37*10.5MM ( L*W*H ) , 42g.			✓
(6). Size & Weight : 50*27*10.5MM ( L*W*H ) , 33g.	✓	✓	
(7). Output Current: Continuous Current 8A, Burst Current 15A.	✓	✓	✓

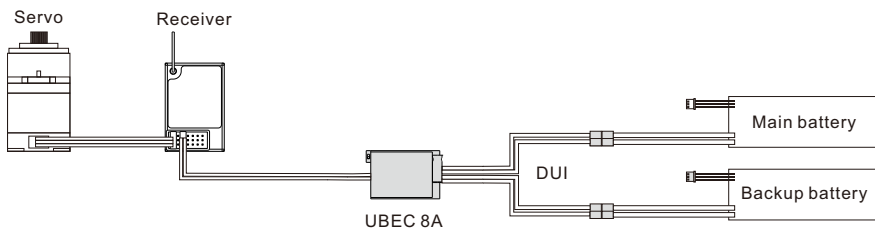
## 2. Features

Features	Signal Input & Output	Double Input & Signal Output	Double Input & Output
(1). DUI (Double Input) Protection : When using the Main and Backup batteries at the same time , if the voltage of Main battery is 0.5V lower than Backup battery , The working battery will be turned from Main to Backup automatically to keep the UBEC working .During the working process , the Main and Backup batteries will transferring to working power automatically according to the "0.5V different" rule !		✓	✓
(2). DUO(Double Output) : Output 1 :5V-6V/8A adjustable for receiver or FC. Output 1 : 7.4V /8A for OSD , LED and so on.			✓
(3). Output Short-circuit protection ,Over current protection , Over heat Protection .	✓	✓	✓
(4). The working status of UBEC is shown by an indicator (LED). When UBEC works, the blue LED lights.	✓	✓	✓
(5). Efficiency: up to 90%.	✓	✓	✓
(6). Battery polarity reversal protection (If the connection is wrong, the UBEC can not work.).	✓	✓	✓

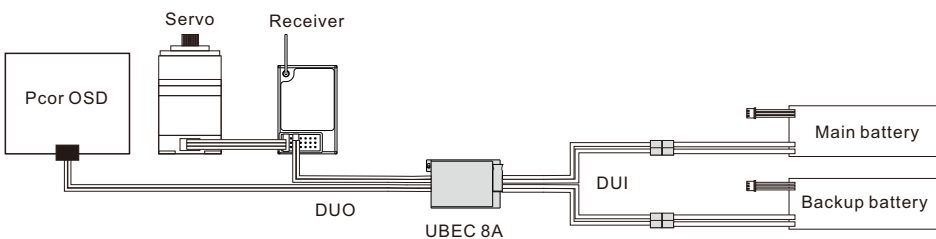
### Signal Input & Output



### Double Input & Signal Output



### Double Input & Output



## 3. How to Use the UBEC, please carefully look at the connections as follows

- Connecting UBEC with ESC OPTO, you just parallelly connect the input connector of UBEC with the battery pack, and plug the output connector of the UBEC into one of spare channels of the receiver.
  - Press the button over 3 seconds, then enter to Programming Mode.
  - The UBEC output voltage is changeable by pressing Red Button circularly as requested.
  - Press the button over 3 seconds and exit from the Programming Mode.
  - You are ready to use the UBEC.

(Note: the two terminal connectors of UBEC output are available)

Using ESC SBEC, you must remove the red signal wires of ESC SBEC to receiver before connecting with the UBEC. (the connection with ESC SBEC is same as connection with the ESC OPTO).

### Notice :

- If only use one battery , you have to connect the Main power port or UBEC will not work .
- Because of the weather and ground, please connect the UBEC at least in a distance 5cm far away from the receiver to avoid the electromagnetic interference.