UBEC 30A/60A MAX 说明书

感谢您购买本产品!在使用之前，请仔细阅读说明书。无刷动力系统功率强大，错误的使用可能导致人身伤害和设备损坏，所以在操作和使用过程中请严格按照使用说明书来执行。我们不承担因使用本产品或擅自对产品进行改造所引起的任何责任，包括但不限于对附带损失或间接损失的赔偿责任!我们有权在不经通知的情况下变更产品设计、外观、性能及使用要求。

特点

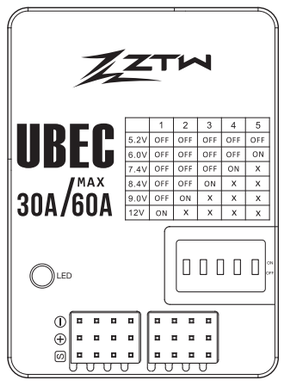
- 精美金属外壳，有助于散热和减少电磁干扰。
- UBEC输出电压六档可调(5.2V / 6.0V / 7.4V / 8.4V / 9V / 12V)，可满足各种电压规格的舵机使用。
- 具有过流保护、过热保护，低压保护、输出端短路保护、输出端防倒灌保护。
- 最多提供8路并联输出，可承载更大的电流。
- 外置开关，可以轻松地开启和关闭UBEC。
- 具有LED指示灯，显示 UBEC工作状态是否正常。

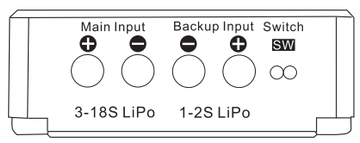
产品规格

型号	UBEC 30A HV
主电池输入电压	3-18节锂电池(9-80V)
备用电池输入电压	1-2节锂电池(3-9V)
输出电压	5.2V / 6.0V / 7.4V / 8.4V / 9V / 12V 可调
输出电流	持续电流30A，瞬间电流60A
重量	75g
尺寸	55*41*17mm

使用方法

❶ 接口说明





1、“- + S”：“-”为地线，“+”为电压输出，“S”为信号输入与输出；

2、2、信号输入输出一一对应，即CH1 对应CH1，CH2 对应CH2，依次类推；

3、仅连接“- +”时，8个通道都可以作为UBEC输出；

4、LED状态指示灯：红灯亮指示主电源输入正常，蓝灯亮指示备用电源输入正常，绿灯亮指示UBEC输出正常；

5、外置开关用于开启或关闭UBEC；

6、外置开关开启或关闭UBEC输出，一旦外置开关关闭，主电源和备用电源输出都会被中断。

❷ 电压输出调节方法

通过三位拨码开关，可设置输出电压四档可调: 5.2 / 6.0V / 7.4V / 8.4V / 9V / 12V。

如图所示，各电压输出档设置方法为：

UBEC 30A/60A MAX

	1	2	3	4	5
5.2V	OFF	OFF	OFF	OFF	OFF
6.0V	OFF	OFF	OFF	OFF	ON
7.4V	OFF	OFF	OFF	ON	X
8.4V	OFF	OFF	ON	X	X
9.0V	OFF	ON	X	X	X
12V	ON	X	X	X	X

5.2V输出：开关1、2、3、4、5全部拨至OFF位置。

6.0V输出：开关1、2、3、4拨至OFF位置，开关5 拨至ON位置。

7.4V输出：开关1、2、3拨至OFF位置，开关4拨至ON位置，开关5随意位置。

8.4V输出：开关1、2拨至OFF位置，开关3拨至ON位置，开关4、5随意位置。

9.0V输出：开关1拨至OFF位置，开关2拨至ON位置，开关3、4、5随意位置。

12V输出：开关1拨至ON位置，开关2、3、4、5随意位置。

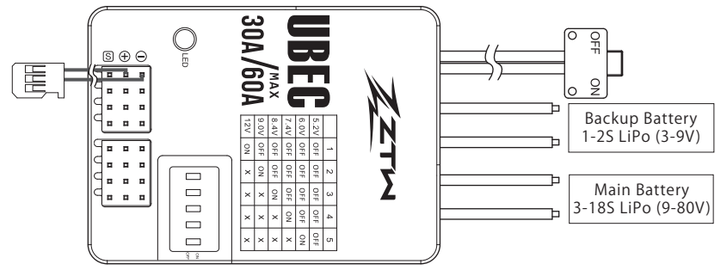
备注:

1.拨码开关位置序号从左至右为：1 / 2 / 3 / 4 / 5。

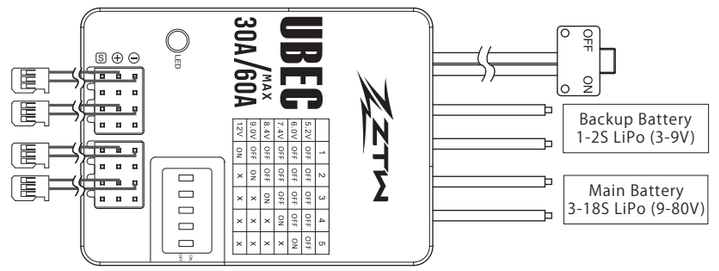
2.主电源与备用电源均连接时，切记不要将UBEC电压设置低于备用电源电压过多（如设置BEC为5V，备用电源接入高于5V的2S LiPo电池），以免当主电源故障时，备用电源电压接入损坏连接的电子设备。

接线示意图

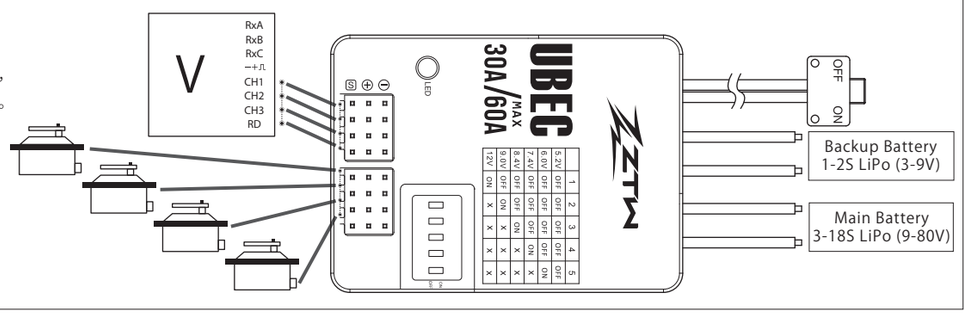
仅作为UBEC使用，单路输出时:
红黑JR插头可以连接诸如接收机，飞控等设备。



仅作为UBEC使用，多路并联输出:
红黑JR插头可以分别连接诸如接收机，
飞控等设备，提供多达8路并联输出。



既使用UBEC，又使用信号桥接，
用于直升机连接陀螺仪与舵机。



其他说明

1、当无刷电调（ESC）不具备内置BEC功能时的使用方式：此时无刷电调不需做任何改动，只要将UBEC的主电源输入端和电池组并联，输出端插入接收机任意空闲的通道即可。

2、当无刷电调（ESC）具备内置BEC功能时的使用方式：此时需将无刷电调自身的BEC输出断开，也就是将无刷电调和接收机之间的红色连线断开，然后将UBEC的主电源输入端和电池组并联，输出端插入接收机空闲的通道即可。

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UBEC 30A/60A MAX User Manual

Thank you for purchasing this ZTW product! Please read this manual carefully before use, Brushless power systems can be very dangerous and any improper use may cause personal injury and damage to the product and related devices, so please strictly follow the instruction during operation and use .Because we have no control over the use, installation, or maintenance of this product, no liability may be assumed for any damage or losses resulting from the use of the product.
We do not assume responsibility for any losses caused by unauthorized modifications to our product. Besides, we have the right to modify our product design, appearance, features and usage requirements without notification.

Features

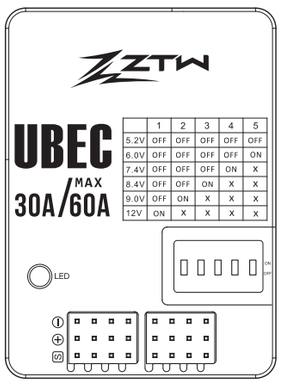
- Metal housing for quick heat dissipation and less electromagnetic interference.
- Adjustable output voltage (5.2V / 6.0V / 7.4V / 8.4V / 9V / 12V) is applicable for servos with different voltages.
- Multiple protections include over current protection, , over heat protection, low voltage protection,(output end) short circuit protection, (output end) anti-backflow protection.
- 8-channel parallel outputs for greater current endurance.
- External switch allows to turn on/off the UBEC easily
- LED indicator for indicating the work status of the UBEC and the connecting status of the backup power supply

Specifications

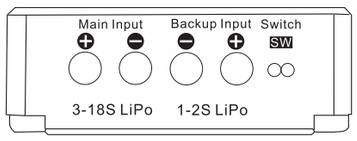
Model	UBEC 30A HV
Main Input Voltage	3-18S LiPo (9-80V)
Backup Input Voltage	1-2S LiPo (3-9V)
Output Voltage	5.2V / 6.0V / 7.4V / 8.4V / 9V / 12V
Output Amperage	Continuous Current:30A,Peak Current: 60A
Weight	75g
Size	55*41*17mm

User Guide

❶ Introduction about the UBEC



	1	2	3	4	5
5.2V	OFF	OFF	OFF	OFF	OFF
6.0V	OFF	OFF	OFF	OFF	ON
7.4V	OFF	OFF	OFF	ON	X
8.4V	OFF	OFF	ON	X	X
9.0V	OFF	ON	X	X	X
12V	ON	X	X	X	X



1、"- + S" : "-" represents the "GND wire", "+" represents "Voltage Output", and "S" represents "Signal Input & Output".

2、Signal input pins must correspond to signal output pins. That' s "CH1" corresponds to "CH1","CH2" corresponds to "CH2",

3、When only connecting to the "-/+" pins, all the 8 channels can function as the BEC output.

4、The LED indicator indicates the work status of the UBEC:

The red LED turns on solid indicates the main input is normal, The blue LED turns on solid indicates the backup input is normal,

and green LED turns on solid indicates the UBEC output is normal.

5、The external switch used for turning on/off the UBEC.

6、The external switch is used for turning on/off the UBEC output, the main power and backup power supply will be disconnected once the external switch is off.

❷ Change the Output Voltage

You can change the BEC output voltage to 5.2 / 6.0V / 7.4V / 8.4V / 9V / 12V via the 5-in-1 DIP switch on the UBEC (as shown below):

UBEC 30A/60A MAX

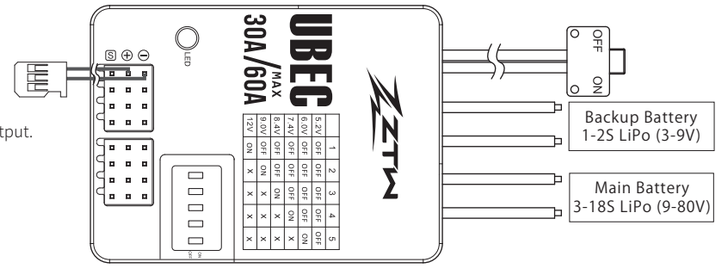
	1	2	3	4	5
5.2V	OFF	OFF	OFF	OFF	OFF
6.0V	OFF	OFF	OFF	OFF	ON
7.4V	OFF	OFF	OFF	ON	X
8.4V	OFF	OFF	ON	X	X
9.0V	OFF	ON	X	X	X
12V	ON	X	X	X	X

5.2V Output: Please slide the switches (#1 #2 #3 #4 #5) to OFF
6.0V Output: Please slide the switches (#1 #2 #3 #4) to OFF, switch #5 to ON.
7.4V Output: Please slide the switches (#1 #2 #3) to OFF, switch #4 to ON, and switch #5 to ON or OFF(it doesn' t matter).
8.4V Output: Please slide the switches (#1 #2) to OFF, switch #3 to ON, and switch (#4 #5) to ON or OFF(it doesn' t matter).
9.0V Output: Please slide the switches #1 to OFF, switch #2 to ON, and switch (#3 #4 #5) to ON or OFF(it doesn' t matter).
12V Output: Please slide the switch #1 to ON, and switch (#2 #3 #4 #5) to ON or OFF(it doesn' t matter).

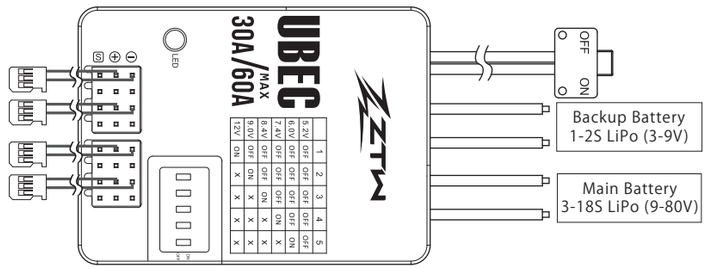
Remark:
1.From left to right (as shown in the picture), they are switch #1, switch #2, and switch # 3, switch # 4, switch # 5.
2.When the main power supply and the backup power supply are connected to the unit,
please do not set the UBEC voltage much lower than the voltage of the backup power supply
(i.e. setting the UBEC voltage to 5V, but connecting a 2S LiPo battery with the voltage of over 5V as the backup power supply).
Otherwise, the voltage of the backup power supply may damage the connected electronic device when the main power supply is broken.

Connection Diagram

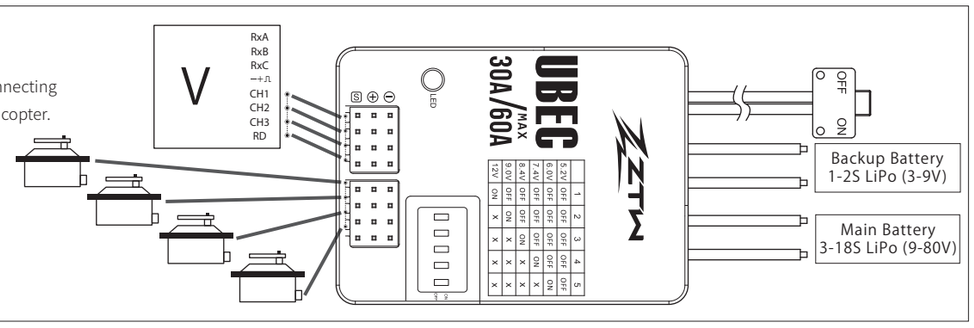
When functioning purely as an UBEC for one-channel output:The Red/Black JR connector can be connected to relevant devices like receiver, flight control for providing voltage output & current output.



When functioning purely as an UBEC for multi-channel parallel output: The Red/Black JR connectors can be connected to relevant devices like receiver, flight control for providing (up to) 8-channel parallel voltage output & current output.



When the unit is used for connecting the gyro and servos on a helicopter.



Other Information

1. When your brushless ESC has no built-in BEC, then there is no need to make any change to the ESC, you only need to connect the input end of the UBEC to the battery pack in parallel and plug the output end (of the UBEC) into any unoccupied channel on the receiver.

2. When your brushless ESC has a built-in BEC, then you need to disconnect the BEC output of the brushless ESC. That' s removing the Red wire from the cable which is used for connecting the brushless ESC to the receiver, and then connect the input end of the main power supply of the UBEC to the battery pack in parallel and plug the output end (of the main power supply of the UBEC) into any unoccupied channel on the receiver.

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