ZTW UBEC 30A Adjustable Output Voltage User Manual

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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.

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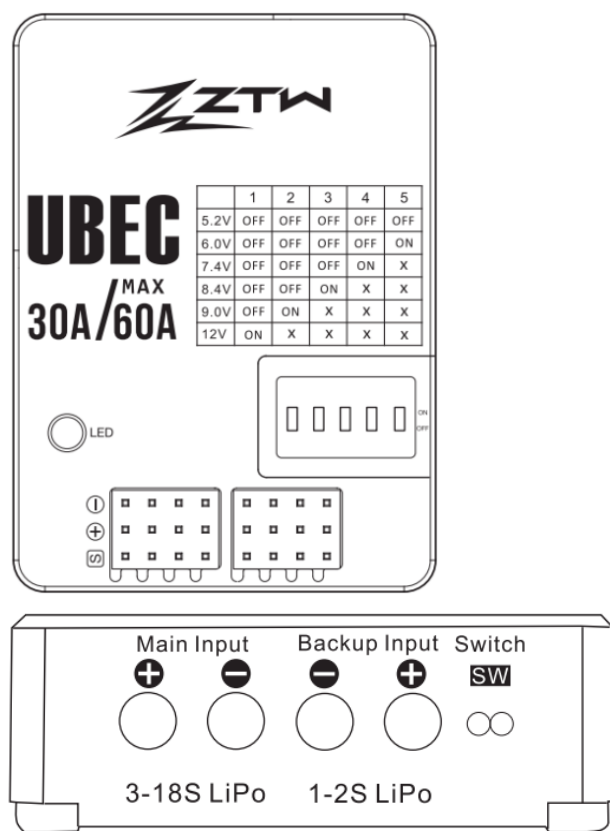
Contents

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

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 of

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):

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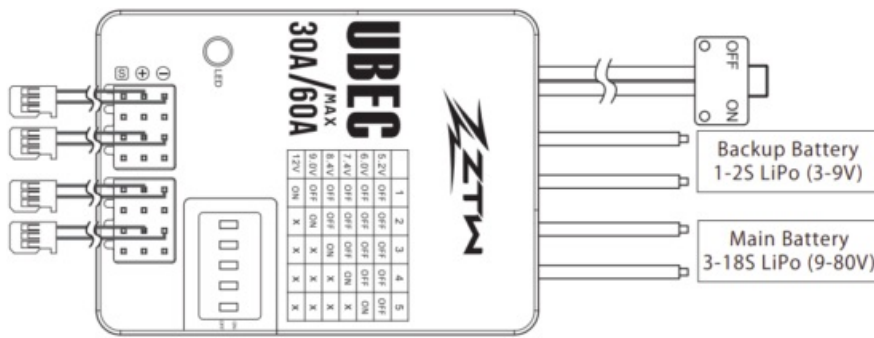
When the unit is used for connecting the gyro and servos on a helicopter.
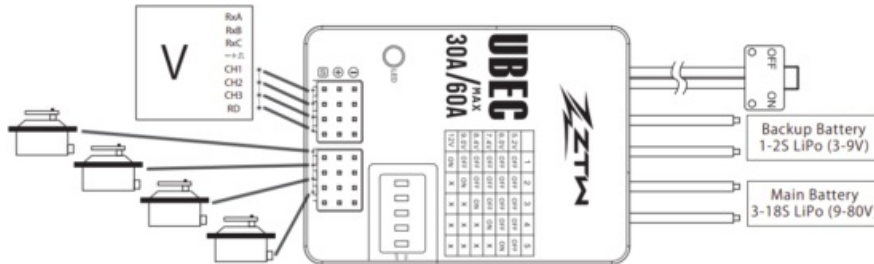
Other Information

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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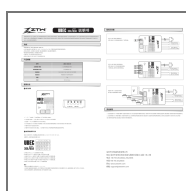**ADD:** 2/F, Block 1, Guan Feng Industrial Park, Jiawei, Xinxiang, Baoan, Shenzhen, China, 518126
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Documents / Resources

ZTW UBEC 30A Adjustable Output Voltage [pdf] User Manual
3-18S, 1-2, UBEC 30A Adjustable Output Voltage, UBEC, 30A Adjustable Output Voltage, Adjustable Output Voltage, Output Voltage

References

- **User Manual**