

## Hobbywing Electronic Accessories

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Hobbywing is not just well known for there reliable and powerful brushless systems. They also have some great electronic accessories that can make you hobby more easy.

Two of these components we want to introduce you more in detail.

### Electronic Power Switch 12 Ampere 2s LiPo



**Item No.: HW30850000**

Technical Data:

- Battery Type: LiPo / LiFe / NiMH
- Input Voltage: 2S LiPo / 2S LiFe / 5S NiMH
- Max. Current: 12A
- Size: 26.5mm x 19.7mm x 10.5mm (L\*W\*H)
- Weight: 7.5g;

This Electronic Power Switch features multiple functions like battery capacity indication, low-voltage indication, over-current protection, short-circuit protection and thermal protection; it can control the ON/OFF of current flow to the receiver, and it is operated by only one button, this helped to solve problems like bad contact caused by vibration or oxidation of contacts conventional mechanical switches have.

The waterproof design makes it applicable for all weather conditions.



#### Features:

- Low-voltage Indication: When the battery voltage goes below the following threshold value for about 2 seconds, the POWER LED will blink RED slowly.
- Thermal/Overheat Protection: When the internal temperature of the electric switch goes above 100°C (212 °F) for about 2 seconds, the electronic power switch will enter the thermal protection mode.
- Over-current Protection: Trigger condition of the over-current protection: The current is between 20~39Amp and that lasts for about 500ms
- Short-circuit Protection: Trigger condition of the short-circuit protection: The current is over 40Amp and that lasts for about 500us.
- Battery Polarity Reversal Protection: It only works when no load is connected to the switch.

**BEC-ESC UBEC 10A 2-6s**



**Artikel Nr.: HW30603000**

Technical Data:

- Input Voltage: 6V-25.2V (2-6S LiPo)
- Output Voltage: 5.0V/6.0V/7.4V/8.4V
- Output Amperage: Continuous Current: 10A, Peak Current: 20A
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Dimension: 43.1 x 32.3 x 12.5mm (L x W x H)

- Weight: 36g

The UBEC is an external switching mode DC-DC regulator; it draws the DC voltage from 2-6S Lipo battery, drops it to a voltage level that is suitable for receivers and other electronic devices, and keep providing the stable current output up to 10Amp.

As the UBEC has such a powerful output capability, so it is particularly applicable for large helicopters and fixed-wing aircrafts.



#### Features:

- It adopted the advanced DC-DC regulator chip with conversion efficiency exceeds 90%
- Options for the output voltage, applicable for all kinds of receivers/gyros/servos, etc.
- It owns BEC shoot-through protection, which prevent the input voltage from directly flowing to the output end and causing damages to receivers, servos and other electronic devices;
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It featured other protections like over-current protection, short-circuit protection (at the output end) and thermal protection make the use more safe and reliable;

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Two cables are connected in parallel at the output end of the UBEC, allow larger current to flow into the receiver.

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It has one status LED, which lights up when the output voltage is within the normal range;

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The external switch can turn on/off the UBEC easily;

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Exquisite aluminum case is helpful for heat dissipation & EMI (Electromagnetic Interference) reduction.