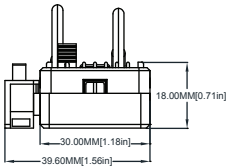
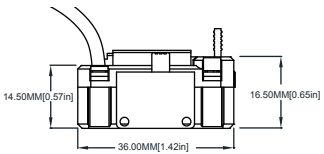
RC4WD Outcry III Waterproof ESC

BASIC SPECIFICATIONS

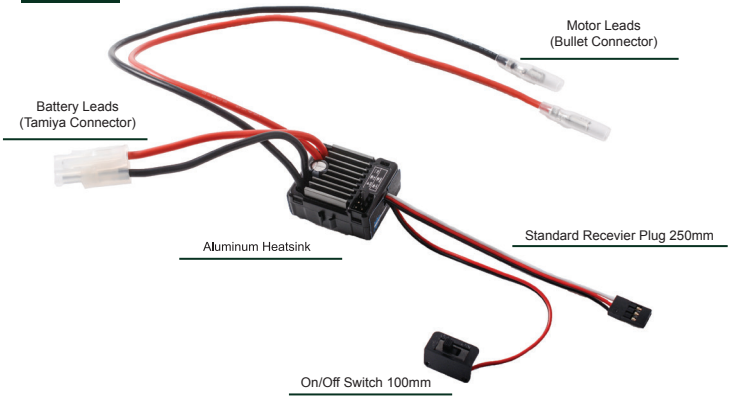
Type		Brushed Motor ESC
Model		Z-E0113
Fwd.Cont. / Peak Current Rev.Cont. / Peak Current		60A/360A 30A/180A
Voltage Range		2-3S Lipo or 5-9 NiMH
Cars Applicable		1/10th Touring Car, Buggy, Truggy,Rock crawler
Motor Limit *	2S Lipo or 6 NiMH	540,550,775 Size Motor: ≧12T or RPM＜3000 @7.2V
	3S Lipo or 9 NiMH	540,550,775 Size Motor: ≧12T or RPM＜3000 @7.2V
Resistance		Fwd 0.001Ω, Rev 0.002Ω
BEC Output		3A / 6A (Switch Mode)
Dimension / Weight		36.5x32x18mm / 39 g
Running Modes		Fwd/Br、Fwd/Rev/Br、Fwd/Rev

SIZE SPECIFICATIONS





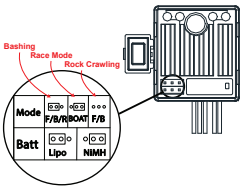
OVERVIEW



INSTRUCTIONS

Product Features and Characteristics

I.Battery & Operating mode



FEATURES

- Water-proof and dust-proof, suitable for all-weather conditions.
- Small size with built-in capacitor module.
- Three running modes: Fwd/Br, Fwd/Rev/Br and Fwd/Rev, fits for various vehicles. Note 1: Fwd =Forward, Br=Brake, Rev=Reverse.
- Great current endurance capability.
- Great built-in BEC output capacity.
- Automatic throttle range calibration, easy to use.
- ESC parameters can be easily changed by changing the jumper pins.
- Multiple protections: Low voltage cut-off protection for battery / Over-heat protection / Throttle signal loss protection.

How to Set Parameters

1. Outcry III ESC uses jumper caps to set running mode & battery type.
We suggest users using tweezers or needle-nose pliers to set parameters by plugging / unplugging the jumper cap (as shown in the picture above);
For example, if you want set the battery type to the “LiPo” mode, you only need to plug the jumper cap into left two pins of the battery pin header.

Programmable Items

1. Running Mode: 3 Options (Fwd / Br / Rev, Fwd / Br, Fwd / Rev). The “Fwd / Br / Rev” is the default option.
Fwd=Forward, Br=Brake, Rev=Reverse
“Fwd / Br / Rev” mode indicates the vehicle can go forward, backward and brake. This mode uses “Double-click” method to make the vehicle reverse. When moving the throttle Trigger/Stick from the neutral Reverse Position for the 1st time, the ESC begins to brake the motor and the motor slows down but is still running, so the reverse is NOT performed immediately. When the throttle Trigger/Stick is moved to the Reverse Position again, if the motor speed slows down to zero (i.e. stopped), the vehicle will move in reverse. This “Double-click” method prevents reversing immediately when the brake function is frequently used in steering. Therefore, this mode is often used in daily practice.
“Fwd / Br” mode, the vehicle can go forward and brake, but no reversing, so this mode is often used in competitions.
“Fwd / Rev” mode uses “Single-click” method to make the vehicle reverse. When moving the throttle Trigger/Stick from neutral zone to backward zone, the vehicle reverses immediately, so this mode is usually used for rock crawlers.
2. Battery Type: 2 Options (Lipo, NiMH), the “Lipo” is the default option.

Protection Features

1. Low Voltage Cutoff Protection (LVC): If the voltage of battery pack is lower than the threshold for 2 seconds, the ESC will enter protection mode, so the motor speed will be lowered (when voltage is lower than the 1st trigger point) till stopped (when voltage is lower than the 2nd trigger point). When the car stops, the red LED blinks to indicate the low voltage cut-off protection has been activated.

- 2S Lipo: When the voltage is below 6.5V, the output power will be halved. When the voltage is lower than 6.0V, the output will be cut off and won’t be resumed again.
- 3s Lipo: When the voltage is below 9.75V, the output power will be halved. When the voltage is lower than 9.0V, the output will be cut off and won’t be resumed again
- 5-9S Lipo: When the voltage is below 4.5V, the output power will be halved. When the voltage is lower than 4.0V, the output will be cut off and won’t be resumed again.

2. Over-heat Protection: When the internal temperature of the ESC is higher than 100 degrees Celsius, or 211 degrees Fahrenheit, this protection will be activated and the output power will be reduced until cut off. The RED LED blinks when the vehicle stops, and the ESC will not resume output power until its temperature is below 80 Celsius degrees or 176 degrees Fahrenheit.
3. Throttle signal loss protection: The ESC will cut off the output power if the throttle signal has been lost for 0.1 second. The “Fail-Safe” function of the radio system is strongly recommended to be activated.

IMPORTANT NOTES

1.Prior to proceeding, be sure to either remove the pinion from the motor or elevate the truck so the wheels are not able to touch the ground.
2.Do not touch this product while in use to avoid injury. Product emits heat and thus, the heatsink may become extremely hot.
3.This product is waterproof. Product will be functional in up to 10cm of water for 2 hours.