How to match the battery with the ESC power supply

How to choose an ESC battery?
Chose a battery with higher current rating than the peak current draw of the motor. The ESC can be selected based on the voltage and the peak current rating of the motor. A simple rule is to choose an ESC with atleast 5A more capacity than the peak rating of the motor,since you may be powering servos,receiver and other accessories from the ESC.

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How many volts can an ESC handle?
With good cooling Your motor should be able to handle ~15A continuous or 30A peak,which on 11.1Vis achieved with a 5-6 inch propeller (test data here). Since your ESC is rated at 30A it should be safe so long as you don't overload the motor. The Motor specs should give you most of the information you need.

How many amps should a ESC draw?
You need an ESC that has an amperage rating higher than what the motor will draw. Batteries don't fry escs - motors pulling too many amps are what kills them. You need to find out how many amps your motor is going to draw. GWS has charts that will show you that. It looks like three ampsis about max draw for that type of motor.

What is the difference between battery voltage and ESC voltage?
1.Battery voltages should not be higher than the maximum voltage that ESC can suffer. 2.Continuously output of battery's current need to be bigger than the ESC's. Working voltage of the motor is decided by the ESC, whilst the voltage of ESC is decided by the output of batteries.

What is the difference between ESC and ESC ERPM?
1.ESC and motor: The motor ERPM must be smaller than ESC ERPM. 2.Battery and motor: The battery voltage must be less than or equal to the motor voltage. Could you just provide a grid that shows motors and compatible ESC combos that you sell. This would be much easier for customers to just select what you recommend as compatible together.

In this video, I will show you how to match your Brushless Motor, with your ESC, and with your Battery. The equasions are simple, and it will save you a lot of headache in the future.

Discussion motor-battery-ESC How to match a combo Beginner Training Area (Aircraft-Electric)

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The ESC and Battery are only there to deliver that to the motor. The ESC has a max Amp rating that needs to be higher than the Motor Max current. And the Battery has a C rating that ...

The answer is yes. If you read the discription of the video, I put it at the bottom. Remember one thing, the motor is what regulates all of this. The motor PULLS the power from the battery, the battery does not push it out. So you can run as big of a battery as you want, as long as it"s able to at least handle the amps of the motor.

An ESC appears to just switch whatever battery voltage it is given onto the motor, so the current will just be proportional to the battery voltage (at a given pulse width, as determined by the ESC"s firmware). So, I just need to test an ESC with an adjustable LAB power supply (on which I have set a suitable current limit).

Now you"re good to go to the steps of connecting ESC to the receiver. So, the steps are-Step 1 of 2: Wiring ESC And Receiver. This is the first step toward connecting the ESC to the receiver. Make sure that your RC ...

What the ESC, motor, and all other components DO care about is how fast they can draw current "from" the battery. If the battery is not big enough to handle the load of the system, the system will not perform properly, and the battery will burn up.

As a DIY electric skateboard novice, have you encountered the problem of unsure whether the ESC, motor and battery matching well? The following will tell you how to select the appropriate ESC, motor, and battery by ...

$begingroup$ With a propeller as load the current will decrease as throttle is reduced, but the ratio of battery current to motor current will increase. So if eg. the ESC was rated for 10A but the motor drew 15A at full throttle, limiting maximum throttle to 67% might drop battery current to 8A but motor current would be 12A, still over the ESC"s rating.

every flight. Proper air cooling is required during flights so the ESC should be place in an area where air flows over the controller. We recommend you change your cutoff voltage to match the cell count of your battery. Connecting the ESC to the Motor The three wires from your motor connect to the three female gold bullet connectors on the ESC.

Since power = watts = volts x amps, increasing the volts (i.e. cell-count) will allow you to get more power out of the motor while keeping its amps within spec. Personally, I always keep the cell-count within the specified range for my motor; but amps is what will really kill a motor, ESC, or battery, so once you"ve settled on what cell-count you"re going to use, ...

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