Battery discharge current is greater than the ESC

What is the difference between ESC and battery?

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. Hence the total voltage of batteries must be equal or less than the maximum voltage of motor.

How does an ESC work?

An ESC can monitor current and have a current cutoff,but it delivers the same voltage for the same throttle imput regardless of the current flow that results. Also,the rated current of the motor,esc and battery do not necessarily reflect what you should actually run. The main factor is heat dissipation.

What ESC battery should I get?

In practice you'd probably go for a 25A or 30A ESCto give yourself some margin,and you'll go for a battery that can deliver 20A at a nice conservative C rating like a 2000mAh pack rated at 20C but running at only 10C or a 2500mAh pack running at 8C. That way your components will be less stressed and will last longer

What is the difference between ESC and motor?

Working voltage of the motor is decided by the ESC,whilst the voltage of ESC is decided by the output of batteries. Hence the total voltage of batteries must be equal or less than the maximum voltage of motor. Maximum voltage of ESC should not be higher than what the motor can suffer. Current in ESC is larger than motor.

Do ESCs limit current?

Some of the better ESC's do have current limiting,but experience in the flying field is that if you dork the thing into the dirt at full throttle,chances are that you'll damage the electronics due to overcurrent. An ESC could be designed to limit current in such a way (I've designed industrial motor controllers that do),but AFAIK ESC's don't.

What are the parameters of ESC?

Battery parameters: Voltage + capacity + discharge rate, for example: 3S (11.1V), 4200mAh,30C Motor parameters: Maximum current (A), maximum voltage (V), KV values. for example: LBP2860, Maximum Current is80A, Maximum Voltage is 17V and 3400MV. 1.Battery voltages should not be higher than the maximum voltage that ESC can suffer.

Last night my (brand new) ESC went up in smoke on the bench after functioning perferctly for 3 days. I gave it throttle, then brake and then poof. That said, is it possible for a ...

For example, a battery with a maximum discharge current of 10 amps can provide twice as much power as a

battery with a maximum discharge current of 5 amps. This ...

Discharge rates significantly impact battery performance; higher discharge rates can lead to increased heat generation and reduced efficiency. Maintaining optimal discharge ...

Both ESC and LiPo specifications are directly related to the max amount of current a motor pulls. So the mAh and C ratings of the battery are to be chosen according to the maximum motor ...

An ESC can monitor current and have a current cutoff, but it delivers the same voltage for the same throttle imput regardless of the current flow that results. Also, the rated ...

Ok so I thought that using too high of a c dating meant that the battery would discharge too much and overload the esc but it seems the discharge can be controlled. Higher ...

C rating just determines how much amperage the battery can put out, not what the battery is constantly outputting. You want a battery with a higher discharge current than ...

maximum current capacity. In short, you want the maximum current capacity of an ESC to be larger than the maximum current draw of the motor/propeller combination. For ...

$begingroup$ Both the question and to some degree this attempted answer are making the fundamental mistake of assuming that the rating is a current draw. It is not, ...

As already said, you want the esc to be able to handle more current than you expect the motor to need, then have the battery able to supply more current than the esc can ...

If the current the motor will draw with the prop of choice exceeds the motor"s maximum rating, the motor will be destroyed. If the current the motor will draw is greater than ...

Typically, the batteries" capacity is between 4000 and 6000mAh. A battery with a greater capacity can discharge more power than a battery with a smaller capacity. For example, the current ...

Battery capacity refers to the amount of electricity released by the battery under a certain discharge system (under a certain discharge current I, discharge temperature ...

Current in ESC is larger than motor. If the discharge current cannot reach the required value of ESC, then the ESC won"t work on its highest performance. Moreover it will cause battery temperature raise then explode.

Radio and Electronics - ESC amp power rating and Battery discharge current question - I am using Xcelorin bl ESC which has 6-amp power rating with 9A peak. I plan to ...

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The Motor Max amp will always be the maximum current in the system. 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 ...

I want to better understand how Electronic Speed Controllers (ESC) work for BLDC motors. Specifically, I am trying to understand battery current draw. Question 1: When ...

C rating is a measurement of energy the battery can safely discharge. The higher the rating, the more energy. Constant rating is what the battery can supply constantly until fully ...

Current in ESC is larger than motor. If the discharge current cannot reach the required value of ESC, then the ESC won"t work on its highest performance. Moreover it will ...

C rating just determines how much amperage the battery can put out, not what the battery is constantly outputting. You want a battery with a higher discharge current than you will ever ...

Web: https://centrifugalslurrypump.es