# What is the discharge current of a 5A battery

How long does it take a battery to fully discharge?
In general you might expect this number to be something like 1/5 or 1/10 of the C rate,meaning a 5 hour or 10 hourtime to fully discharge. Maximum continuous discharge current sounds like what is the maximum drain current that will remain safe on the battery without "abusing" it and thereby shortening battery life.

What is a battery discharge current?
The discharge current is the rate at which a battery delivers current to a load,measured in amperes (A). The max continuous discharge current specifies the maximum current the battery can safely provide continuously without overheating or damaging cells. It is often expressed as a multiple of capacity (C-rate).

What is a 5c charge rate?
For a battery with a capacity of 100 Amp-hrs,this equates to a discharge current of 100 Amps. A 5C rate for this battery would be 500 Amps,and a C/2 rate would be 50 Amps. Similarly,an E-rate describes the discharge power. A 1E rate is the discharge power to discharge the entire battery in 1 hour.

How do you calculate a battery discharge rate?
The discharge rate (C-rate) is a way to express the max continuous discharge current in relation to the battery's capacity. The two are mathematically related by the formula: Max Continuous Discharge Current (A)=C-rate×Battery Capacity (Ah)Example: For a 5000mAh (5Ah) battery

What is a C5a battery?
C5A, as a standard, can be converted to a number when the rated capacity of the battery is known. The advantage of using C5A instead of "800mAh" is the addition of a specific discharge rate. This is because a battery will not deliver any arbitrary combination of current over time that adds up to the mAh rating.

What does C mean on a battery?
The rate at which a battery is being dischargedis expressed as the C rating. The C rating indicates how many hours a battery with a given capacity will last. 1C is the 1h rate and means that the discharge current will discharge the entire battery in 1 hour. For a battery with a capacity of 100Ah,this equates to a discharge current of 100A.

The decreasing rate depends on various factors, including the discharge current and the battery"s capacity. Safe Voltage Range. The safe voltage range for an 18650 battery is slightly wider than its normal working ...

A 1C rate means that the discharge current will discharge the entire battery in 1 hour. For a battery with a capacity of 100 Amp-hrs, this equates to a discharge current of 100 Amps. A 5C ...

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A 1C rate means that the charge or discharge current is equal to the battery"s capacity. For example, a 1C rate for a 20Ah battery would be 20A. How does the C rate affect ...

As a rule of thumb small li-ion or li-poly batteries can be charged and discharged at around 1C. "C" is a unit of measure for current equal to the cell capacity divided by one hour; so for a 200mAh battery, 1C is 200mA. ...

This table provides a clear reference for the relationship between a battery"s C-rating and the estimated discharge time. The C-rating indicates the maximum safe continuous discharge current that can be drawn from the battery, with higher C-ratings allowing for faster discharge but reduced overall capacity. What is Battery C-Ratings

the discharge current of a 100Ah battery? The discharge current is the rate at which current flows out of the battery. You know the current you need : 4.61A. If the battery data lists a continuous discharge current of 5A or more, you are good. If it lists the capacity as 50Ah at C/10, that means 50Ah over 10 hours, or 5A, you""re good. ...

When I have situations of big demand of power (around 5-7kW), I receive high discharge current alarms from the Victron system. I had a look at the parameters that the battery gives thru the CAN bus: DYNESS-L battery/parameters/charge current limit (CCL) = 112.5A DYNESS-L battery/parameters/discharge current limit (DCL) = 112.5A

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What is the "Discharge.Current" exactly? There is something i don"t understand about the discharge current formula. Why, in the formula when increase the discharge current, the discharge c value increases? Shouldn"t if i ...

2000 mAh battery charging @ 1c = 2.0 A charging current; 2000 mAh battery charging @ 2c = 4.0 A charging current; 2000 mAh battery charging @ 0.5c = 1.0 A charging current; Charging at higher currents (higher c-ratings) is more damaging to the battery"s cells and is more likely to cause complications like fires and explosions while charging ...

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