What is the appropriate discharge current for a large battery

How much does a high discharge current affect battery capacity?
With a higher discharge current,of say 40A,the capacity might fall to 400Ah. In other words,by increasing the discharge current by a factor of about 7,the overall capacity of the battery has fallen by 33%. It is very important to look at the capacity of the battery in Ah and the discharge current in A.

How long can a battery be discharged?
Maximum 30-sec Discharge Pulse Current -The maximum current at which the battery can be discharged for pulses of up to 30 seconds. This limit is usually defined by the battery manufacturer in order to prevent excessive discharge rates that would damage the battery or reduce its capacity.

What is a maximum continuous discharge current?
Maximum Continuous Discharge Current - The maximum current at which the battery can be discharged continuously. This limit is usually defined by the battery manufacturer in order to prevent excessive discharge rates that would damage the battery or reduce its capacity.

How do you know if a battery has a Max discharge current?
There is no generic answer to this. You read the battery datasheet. Either it will tell you the max discharge current,or it will tell you the capacity at a particular discharge rate,probably in the form C/20 where C means the capacity. You know the current you need : 4.61A.

What is a battery discharge rate?
The discharge rate provides you with the starting point for determining the capacityof a battery necessary to run various electrical devices. The product I x t is the charge Q,in coulombs,given off by the battery. Engineers typically prefer to use amp-hours to measure the discharge rate using time t in hours and current I in amps.

How many Ah can a battery discharge in 20 hours?
The discharge current would have to be 400A to discharge the battery in an hour. If the battery has a C20 capacity of 600Ah,it means that when the battery is discharged in 20 hours,it has a capacity of 600Ah. The discharge current would have to be 30A to discharge the battery in 20 hours (600Ah /20h).

This means that, for a typical 10 Ah battery with a Peukert constant of 1.2, a 10 A discharge rate will discharge the battery in just 0.63 hours or 63 per cent of the expected time. Note that Peukert"s equation holds true for other types of cell ...

So, is there a rule of thumb for a max safe discharge current for (AGM in my case) Lead Acid Batteries? My gut feeling is that 300A for an hour on a 600Ah bank should be safe. But then my 2nd gut will freak out when

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it sees 200A of discharge on the BMV..

Your max realistic discharge rate for your battery bank is well over the the batteries realistic rate of 92a. Your inverter can actually handle peak ac loads near 4000w. This is approaching 350a @ 12v battery. Choose a couple of 12v lithium batteries. They handle high charge/discharge currents better than LA. Ask or advice.

Max Discharge Current (7 Min.) = 7.5 A Max Short-Duration Discharge Current (10 Sec.) = 25.0 A This means you should expect, at a discharge rate of 2.2 A, that the battery would have a nominal capacity (down to 9 V) between 1.13 Ah and 1.5 Ah, giving you between 15 minutes and 1 hour runtime.

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 ...

This means that, for a typical 10 Ah battery with a Peukert constant of 1.2, a 10 A discharge rate will discharge the battery in just 0.63 hours or 63 per cent of the expected time. Note that Peukert"s equation holds true for other types of cell technology, but the Peukert"s constant must be known for the cell type and age. Specific Gravity (SG)

A BMS"s discharge current, charge current and balance current. In this article, we will go over all of the various aspects of a BMS. We will explain what they do and why they are important. After that, we will tell you how to find the best BMS for your application. How To Choose A BMS For Lithium Batteries. In order to choose the best BMS for your lithium battery, ...

Part 1. Introduction. The performance of lithium batteries is critical to the operation of various electronic devices and power tools.The lithium battery discharge curve and charging curve are important means to evaluate ...

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