# Batteries with the same power but different voltages

Are all 12V batteries the same?
Let's suppose you have 3 different 12V batteries,wired in parallel to supply 12V power to your RV. They can have different capacities on account of size or age,but the same chemistry(e.g. all flooded lead acid or all AGM). Before you start charging,the voltage across each of them is the same-even if one is fully charged and the others aren't.

Do all batteries have the same capacity?
They can have different capacitieson account of size or age,but the same chemistry (e.g. all flooded lead acid or all AGM). Before you start charging,the voltage across each of them is the same-even if one is fully charged and the others aren't. Charge will flow from one battery to the other two until they're balanced.

What happens if a battery is connected in parallel?
However,when connecting batteries of different capacities in parallel,the batteries will not discharge or charge at exactly the same rate. The battery with the higher capacity will contribute more to the total energy storage,while the battery with the lower capacity may reach its limits sooner.

Why do batteries with the same voltage have different currents?
Experts say "current depends on voltage". So, if the voltage is high, current would be high. Agreed; (I = V/R) If the voltage is low, the current would also be low. Agreed -> I = V/R

Can a 12 volt battery be charged in parallel?
Yes,imho it can. (imagine charging a 1.5 V battery with a 12 V supply..) ( : You should not connect different batteries in parallel. If you do,the battery with the highest voltage will discharge into the other one,until they end up with equal voltages.

Can a battery pull a constant voltage?
The people designing other stuff promise to pull less than some maximum current from the battery as long as the voltage applied is in the normal operating range. When these promises are violated,the convenient simple rules of thumb we use ("batteries put out a constant voltage") don't work anymore.

So what is the difference between these, and why would a designer require a couple big D cell batteries for a flashlight when a couple AAA have the same voltage rating? There are two ...

They suck in charging power at different rates, and the biggest is still pulling in power while the small ones have been pretty much balanced (and quit) at full charging voltage. (When the current drops to near zero, I quit on the charger.) My batteries are only 4s, but nearly the same size yours (one at about 60Ah, another at 105Ah, and the biggest at 120Ah). Yeah, ...

# Batteries with the same power but different voltages

First of all, assuming solid connections, the voltage across each battery will always be the same. What does that mean? Let"s suppose you have 3 different 12V batteries, wired in parallel to supply 12V power to your RV. They can have different capacities on account of size or age, but the same chemistry (e.g. all flooded lead acid or all AGM).

A battery has internal resistance, that can be viewed as an "invisible resistor" wired sequentially with the voltage source. This resistance restricts the charging and discharging current and is smaller for the powerful battery.

Different Types of Batteries and Their Voltages. Batteries come in various forms, each suited to specific applications and characterized by distinct voltage ranges. Understanding these types can help you choose the right battery for your needs. Common Battery Types. Alkaline Batteries: These are the most common household batteries, like AA and AAA, ...

It"s generally recommended to use batteries with matching capacities and matching voltages when connecting them in series and/or in parallel to ensure optimal performance and longevity. Overall it"s technically possible to connect imbalanced batteries together, but the capacity mismatch can lead to performance issues a

Batteries in parallel have to be the same size but don"t have to be the same voltage. You can use different voltages in parallel, as long as the total voltage of all the batteries is within the range that your device can handle. For example, if you"re using four AA batteries in a device that requires 6-8 volts, you could use two 3-volt batteries and two 1.5-volt batteries. As ...

The voltage of a battery is not always equal across different batteries. In fact, it is quite common for batteries of the same type to have slightly different voltages. This variation in voltage is due to several factors. Firstly, the voltage of a battery is determined by the electrochemical reactions that occur inside it. These reactions ...

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