



# How much electricity can a 48v 720ah battery store

How much energy does a 12 volt battery hold?

Example 1: A 12 volt, 100Ah battery would have 1,200Wh of capacity. Example 2: A 24 volt, 50Ah battery would also have 1,200Wh of capacity. But you say, "at 50Ah, the second example is half the capacity since it's half the Ah". Not really, the voltage doubled so based on the math, each of these batteries holds the exact same amount of energy.

What is battery capacity?

Let's start with a foundation of battery capacity terms and what they mean. Amp hours (Ah) is a measure of how many amps a battery can supply for how many hours. Watt hours (Wh) is the TOTAL amount of energy that a battery can hold. Seems like sort of the same thing just written differently, right? Not exactly.

Can you have too much battery capacity?

It would seem like you can never have too much capacity in a battery, however, increased capacity will often also increase size, weight and cost. So how much energy do you truly need to store without overkilling your needs and/or breaking the budget? Introduction: Let's start with a foundation of battery capacity terms and what they mean.

How to calculate battery capacity?

This we can do using the following steps: Determine the kWh requirements of the device. Divide the battery kWh with the device kWh. Using the  $kWh = Ah \times V / 1000$  equation, we can calculate the total battery capacity. Here we have to pay attention to something called the battery discharge curve.

How do you calculate hours of use of a battery?

or, hours of use (h) equals to Kilowatt-hour capacity of the battery (kWh) divided by the Kilowatt requirement of the device (kW). There is something else to consider, concerning the type of battery used. There is a general distinction between two kinds of batteries, made from two different materials: Lead-acid and Lithium-ion.

How many hours can a 10 Ah battery supply?

Now, imagine that we have a battery that is rated at 10 Ah, or 10 Ampere-hours. This rating means that the battery is able to provide a total of 10 Amperes of electrical current hours. This battery should be able to supply a 1 amp device with 10 hours of juice, or a 10 amp device with 1 hour of juice.

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