



12 volt storage battery for solar panel

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12-volt batteries and solar panels are both common items in any arsenal. While some users may use 6v, 24v, or even 48v battery setups, 12v batteries are the most common and the easiest to set up and manage, especially for smaller solar setups.

But what about different-sized 12v batteries? Can you use any solar panel with a 12v battery?

Solar panels of any size can be used with a 12v battery, but the panels must have a 12v rating too, and you must use a charge controller.

In this article, we'll be covering the following:

If you've been wondering about 12v batteries and the right solar panels to use for them, you've come to the right place! In the following article, we'll dive deep into all you need to know about 12v batteries and solar panels.

Technically, all you need to charge a 12v battery is a solar panel with a 12v rating. This can be any solar panel, although the bigger it's, the quicker your battery will charge.

Anything under 5-10 watts is not enough, as these will only "trickle charge" your battery very slowly. In general, 12v panels are only available up to a rating of around 200-watts; from there up they are usually 24v or 48v.

There are various sizes of 12v batteries available, 100ah being the most common. For this reason, the amp hour rating of the 12v battery you have and how quickly you want it to charge fully will determine what size solar panel you need.

See also: [Best Solar Batteries: Top Picks and Comprehensive Buying Guide for 2022](#)

Solar panels are rated and tested at 77°F, which is the industry standard. However, solar panels operate between 60°F and 95°F. So the following calculations are based on the optimal environment; variations will occur.

These optimal temperatures will calculate the following charge times and the ah/watt current charge.

Seasons and shadowing will reduce the currents and charge times, so getting more panels or higher-rated panels to overcompensate to maximize the potential is best.



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