

# How big a solar panel should I use for a 36v 200A battery





## Overview

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How many batteries for a 120 watt solar panel?

For a single 120-watt solar panel, one 12 volts 150 amp hours battery (or two 12 volts 75 amp hours batteries) would be sufficient.

What is battery storage system sizing?

Battery storage system sizing is significantly more complicated than sizing a solar-only system. While solar panels generate energy, batteries only store it, so their usability (as well as their value) is based first and foremost on the energy available to fill them up (which usually comes from your solar panels).

Do you need a bigger battery if you're undersized?

With the introduction of the Federal Government's "Cheaper Home Batteries Program" from July 1, 2025, it's more important than ever to size your battery correctly. The rebate applies only to usable battery capacity between 5kWh and 50kWh, meaning oversized or undersized systems may miss out on optimal value or eligibility.

Do I need to oversize my battery bank?

This means that you'll need to oversize the battery bank further if you're going to follow these recommendations, which vary depending on the type of battery you'll be using. Generally, Lithium batteries have an optimal DOD of 80 to 100%, and Lead-Acid batteries an optimal DOD of 30 to 50%.



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### [Sizing residential solar & battery systems: A quick guide](#)

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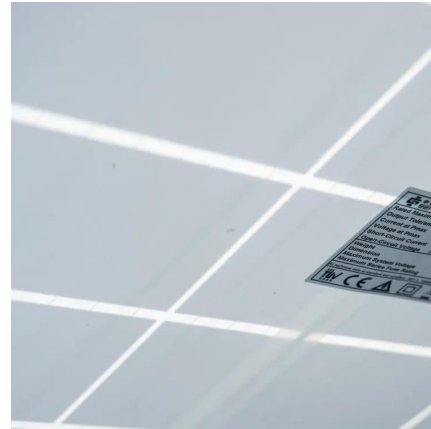


### [What Size Solar Panel Do You Need for a 36V Battery? Let's ...](#)

Ever tried charging a Tesla with a phone charger? That's exactly what happens when you mismatch solar panels and batteries. For a 36v battery, the solar panel size depends on three ...

### [The Complete Off Grid Solar System Sizing Calculator](#)

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### [Which Solar Panel is Best for a 200Ah Battery?](#)

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### [What Size Solar Panel for 200Ah Battery: A Comprehensive ...](#)

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### [How to Properly Size Solar Panels for Your 36V Lithium Battery](#)

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