



530 kWh home energy storage battery

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As subject matter experts, we provide only objective information. We design every article to provide you with deeply-researched, factual, useful information so that you can make informed home electrification and financial decisions. We have:

Sourced the majority of our data from hundreds of thousands of quotes through our own marketplace.

Incorporated third-party data and information from primary sources, government agencies, educational institutions, peer-reviewed research, or well-researched nonprofit organizations.

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The home storage revolution is here, and there are plenty of options when it comes to home batteries that you can install. In this article, we'll talk about battery capacity - what it is, why it matters (or doesn't), and how battery models stack up against one another.

Eguana, Electriq Power, and sonnen currently make the home batteries with the most capacity.

Battery capacity can be a misleading metric: in many cases, you can stack multiple batteries together to make a larger system.

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When manufacturers or installers talk about battery capacity (or energy capacity), they usually talk about one of two metrics a battery is rated on: total capacity and usable capacity. We'll get into why those are different further down. For the time being, it's all just "capacity."

At its core, battery capacity means the amount of energy stored in a home battery, measured in kilowatt-hours (kWh). Here's a complete definition of energy capacity from our glossary of key energy storage terms to know:

The energy capacity of a storage system is rated in kilowatt-hours (kWh) and represents the amount of time you can power your appliances. Energy is power consumption multiplied by time: kilowatts multiplied by hours to give you kilowatt-hours. To understand the energy sizing of batteries, you need to know how long



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you want to run your appliances with your battery. Running many appliances for a long period of time would require a larger battery from both a power and energy (capacity) perspective while running fewer appliances for a shorter period would require a smaller battery from a power and energy perspective.

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