



# Solar battery price per kwh

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We've also set a target \$700/kWh figure for batteries (specifically lithium with a 10 year warranty) as a marker for general battery affordability. One of the biggest hurdles to battery storage uptake in Australia is the up-front costs associated with batteries. At this price point, a 10kWh battery system would cost roughly \$7,000 and a 5kWh battery system would cost about \$3,500 - tenable (if not negligible) amounts to pay for something that will go a long way towards minimising electricity bills and upping a home's energy independence.

Note that this is the payback period for the work that the battery does "shifting" solar energy to evening use, and excludes direct solar benefits - calculated using our Solar & Battery Storage Sizing & Payback Estimator Tool. Payback periods for "whole" solar+storage systems - those viewed as a single unit - will already come in at under 10 years in many places. Also note that it doesn't take into account the fact that there's an opportunity cost associated with putting your solar into batteries instead of earning a feed-in tariff for it - which actually makes batteries less appealing.

Other assumptions: The model scenario assumes a house with a 5kW solar system and an average daily energy consumption level of 25kWh on the "evening peak" consumption pattern. This hypothetical house is located in Sydney (which gets a middling amount of sunlight), and is on a time of use (TOU) billing plan, where electricity is more expensive in the evening. (TOU plans are generally the more attractive option for households with batteries.)

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The average cost of solar battery installation is \$12,175, but the cost typically varies from \$7,850 to \$16,500.

Solar roofs are a great way to produce clean energy and lower your electricity bill, but your fancy new roof cannot store collected energy without the help of a battery backup system. You can expect to spend between \$7,850 to \$16,500, or a national average of \$12,175, for a solar battery system and installation.

The battery stores collected solar power so your home can use it when your solar array cannot produce energy. The battery backup system and solar array are both building-integrated photovoltaics (BIPV). Keep in mind it is more cost-effective to install the battery at the same time as your new solar array to create a hybrid system.

Most solar battery installations fall into the \$7,850 to \$16,500 range, but many factors can impact your budget and overall costs. A small lead-acid battery used for emergency power in an RV can cost as little as \$240, while a luxury, German-manufactured Sonnen battery for a 6,000-square-foot home can set you back as much as \$30,000.



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Solar roof systems produce the most energy in the middle of the day when you are using the least amount of home energy. Without a battery, this energy is sent back to the power grid. Solar batteries help lower your electric bill and allow you to use energy when you need it most, like during a power outage.

One of the best ways to estimate the overall system cost is to know how much energy in kilowatt-hours (kWh) your new solar battery needs to capture to power your home and appliances. On average, solar batteries cost between \$400 to \$750 per kilowatt-hour.

Larger homes may require more than one battery to power the home or offset 100% of electricity costs. Most solar batteries can be joined together to create circuits, creating one larger unit with greater capacity.

The U.S. Energy Information Association estimates that the average home uses around 29 kWh per day, or 886 kWh per month. It is important to understand how many kWh your home needs to support your average use if you want to save the most on your electric bill.

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