Battery storage for home solar

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Are you looking for ways to optimise the amount of solar energy you can use at your home? Then you should consider investing in a solar battery storage solution. Whether you are investing in a solar PV system to help reduce your energy bills, or because you want to be more environmentally friendly, a solar battery will help you maximise your return on investment.

Our expert solar battery installers at Effective Home have helped us put together a guide that will cover the following: what a solar battery is, the key factors to consider when purchasing a solar battery, the pros and cons of solar batteries, how much they cost, what size battery you may need, and how long they last. Additionally, we have also outlined our top five best solar battery picks depending on storage, capacity, price, warranty, and efficiency. If you’re looking for the best solar batteries on the market today, you’ll find them below.

The solar battery is a fundamental, yet optional, element of any solar panel system. Instead of using the power your solar panels produce instantly, a solar battery can store excess electricity to be used at a later date. How much electricity it can store depends on the battery capacity. Additionally, solar batteries can also store energy from the National Grid, which can save you money if you charge the battery outside of peak times.

Even if you have an existing solar panel system, but do not own a solar battery, you can add one into your system afterwards. The primary aim of solar batteries is to fully utilise the power your solar panels generate, especially during time periods of poor sun exposure and in the evenings.

When it comes to types of solar batteries that are available on the market, there are four main types. These are: lithium-ion, lead-acid, flow, and nickel-cadmium batteries. The latter two are more commonly found in industrial settings, and are not particularly suitable for residential use. Taking this into consideration, we will focus on lithium-ion and lead-acid batteries.

One of the oldest forms of batteries are those made out of lead-acid, and their longevity is a huge selling point when it comes to purchasing these solar batteries. Typically cheaper than their lithium-ion counterparts, lead-acid solar batteries have a longer lifespan than other battery types. Additionally, the technology surrounding these types of batteries is better understood.

While the Sunsynk L5.1 solar battery may have one of the smallest usable capacity amounts out of our top five picks, it is the perfect customisable system that can help you build the exact amount of capacity you wish your solar battery to feature. In addition, it is one of the most affordable solar batteries on our list, and also boasts a compact design.

The ability to build a battery storage system that works for you makes this our top pick, and Sunsynk are such

a well-known name in the solar battery space that we here at Effective Home consider any Sunsynk battery to be an excellent choice.

Known for its high efficiency level and powerful performance, the Tesla Powerwall 2 is one of the best known solar batteries on the market. With its high capacity stats and depth of discharge, as well as its ability to connect up to 10 batteries together, this solar battery from Tesla is the perfect option for larger households or families with higher energy demands.

However, the Tesla Powerwall 2 is one of the most expensive solar batteries on the market, so opting for this model is quite the investment. Additionally, the power monitoring technology available with this battery (which you can control via your smartphone) is known for being quite temperamental.

If price is your biggest concern whilst you are shopping around for the best solar battery for your household, then look no further than the LGES 16H Prime. While it may be one of the more cost effective batteries available on the market, it does not compromise on performance. With a high compatibility rating, sizable and usable storage capacities, and a good efficiency rating, the LGES 16H Prime appears to have it all.

One of the only drawbacks of this battery is that it has limited modularity. Meaning if you wish to expand the capacity level of your battery, perhaps you are using more electricity than usual or your family has grown, you won’t be able to do so. This is not a battery that can grow with you.

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Web: https://www.sumthingtasty.co.za/contact-us/
Email: energystorage2000@gmail.com
WhatsApp: 8613816583346