Ese solar batteries

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Having a solar battery means that you"ll use more of the electricity you generate ...

Generate your own electricity with a solar PV system

With a new solar setup, including a solar battery, you can drastically reduce your electricity bill

Adding solar panels to your roof space can bring you huge savings, but what is less commonly recognised is that you can add a solar battery to your solar panel system to maximise its potential. But how much do solar batteries cost and are they a cost-effective investment?

With a wide range of battery options available with differing prices, your budget may be one of your main considerations. Additionally, what you require from your solar batteries - whether you are just looking to use it as battery backup, or you are at the other end of the scale and looking to use solar batteries to go completely off-grid - will all have a bearing on your solar battery costs.

Solar panel batteries are relatively new technology and their uptake isn’t yet as widespread as solar panels themselves, meaning that there are a lot of solar systems in operation in the UK that do not yet include a solar battery. However, as the use of solar batteries becomes more commonplace, the price (much like it did with solar panels) will fall, making them a more affordable option.

As solar batteries allow homes and businesses to store energy by day that can be used later, this brings savings in energy bills and a greater degree of energy independence since less electricity is required from the National Grid. These bill savings can be significant and enough to make homes and businesses consider making the investment in solar batteries.

Solar battery storage systems aren’t cheap and the typical cost is anything between ?1,200 and ?10,000, depending on the battery you choose. Type, brand, capacity, efficiency, depth of discharge, and longevity are just some of the factors that will impact solar battery price.

The most commonly used solar batteries are either lithium-ion or lead-acid. Li-on batteries are the more expensive option but are generally the favoured option as they are compact and have better efficiency and depth of discharge (i.e more of the stored energy within the battery can be used without negatively impacting on the battery life).

Lead-acid batteries are a cheaper solar battery option, and though they have lower lifespan than lithium-ion batteries, still have a use in some solar setups.

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Below you can find the average cost of lithium-ion and lead-acid batteries. Remember, this is just to give you an idea about the cost you might pay. All of the factors we’ll cover throughout this post, from battery brand to capacity, depth of discharge to efficiency will ALL affect the final cost of any solar battery you purchase.

Solar batteries can in most cases be added to an existing solar panel system, though it will depend on the specification of your solar PV system. If your solar panels are a significant number of years old then this may limit your options when retro-fitting a solar storage battery.

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