Solar panel battery



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All solar systems produce power at different times than homeowners use it. Solar systems will typically overproduce during the middle of the day compared to what the homeowner needs. Without battery storage, this extra production is back-fed to the utility grid through a program called net energy metering.

So, why pay for a solar battery when the grid is there to credit you for your excess power anyway? As it turns out, there are several key advantages to pairing your solar system with battery storage.

If you have a solar system without battery storage and you experience a power outage, the solar system will automatically shut off. Electrical code requires that solar systems shut down during power outages so they don"t accidentally backfeed live power to the grid if the utility company has repair workers trying to fix the lines.

The moment the outage occurs, the gateway instantly detects the event, disconnects the home from the grid, and turns on the battery. The system then becomes a closed loop, where the battery powers the home's backup circuits and the solar panels recharge the battery.

In this respect, solar batteries can function very similarly to home generators, except the time they can run for is a bit different. Solar batteries are far better in every measurable way. Check out our other article on the top ten reasons solar batteries are better than generators.

Many utilities around the country are moving towards time of use (TOU) rate plans for their residential customers. These rate plans more accurately reflect the changes in wholesale power prices throughout the day.

Typically, these plans have peak charges during the late afternoon and early evening, when demand spikes as everyone goes home after the workday and increases their power consumption. The off-peak times are during the middle of the day, when solar systems everywhere are producing excess power, and overnight, when demand is lowest.

This is where the additional savings from solar batteries comes in. Rather than backfeeding excess solar power when it's less valuable, batteries allow homeowners to store their excess power on-site and feed that power into the house at night, which reduces the amount of power they need to draw from the grid during the highest-cost time of day.

The amount of additional savings that a solar battery will provide depends on several factors, including how much electricity the homeowner uses, what time of day they use that power, and the structure of their specific rate plan.

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With a battery, homeowners are able to produce, store, and use their own clean power around the clock. This not only provides the satisfaction of being more self-powered by clean energy, it also enables significantly more energy independence by reducing reliance on the grid.

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

