



# Sunpower sun vault

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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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SunPower has always been known for its top-tier solar panels - now, they're expanding their influence in the energy storage space. In 2019, the company launched their first home solar battery: the Equinox Storage system. Now rebranded as the SunVault Storage system, this battery and software solution, when paired with a SunPower Equinox solar panel system, enables you to keep your lights on during power outages and manage your home's electricity use.

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A qualified EnergySage-approved installer can give you the best information about the SunVault home battery system and other energy storage options available to homeowners today.

A SunVault installation includes both a battery and a control system - SunPower calls this control unit the "Hub+." You also get access to SunPower's mobile monitoring app, where you can see the performance of your storage system and manage its settings. This is especially valuable if you pair a SunVault installation with solar panels. Specifically, and not surprisingly, SunPower recommends you pair SunVault with their solar solution, known as the SunPower Equinox.

The SunPower SunVault pairs well with solar panel systems, especially if your utility has reduced or removed net metering, introduced time-of-use rates, or instituted demand charges for residential electricity consumers. Installing a storage solution like the SunVault system with a solar energy system allows you to maintain a sustained power supply during both day and night, as long as you store enough power from your solar panels when the sun is shining.

As with many other home battery products, the SunPower SunVault is sized for day-to-day use at your home

and is primarily designed to be paired with a solar panel system. When your solar panels produce more electricity than you can use in your home, you can store the excess electricity in the battery system instead of sending it back into the grid. Later, when your panels aren't producing enough electricity to meet your home's needs, you can use the stored energy in your battery instead of having to buy it from your utility company.

The SunVault system is a battery system from manufacturer SunPower. The SunVault system is a Lithium Ferrous Phosphate (LFP) battery, as opposed to the traditional Lithium-Ion NMC technology used in many batteries. This type of chemistry offers longer life, improved reliability, and increased safety. The physical battery is able to be wall-mounted, keeping it unobtrusive and out of the way in your home.

When evaluating the SunVault system, there are various important metrics and technical specifications to keep in mind. Among the most important are the size of the battery (power and capacity), its depth of discharge, and roundtrip efficiency.

Think of your battery like water running through a pipe: the usable energy capacity is the amount of water available to push through the pipe, while power is the size of the pipe itself. Larger pipes allow more water to flow through at once, which depletes the water faster. Similarly, a battery with a high power rating can deliver more electricity at one time but will burn through its stored energy faster too.

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