



Sunvault cost

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“With SunPower, you’re going to a one-stop shop, so you get solar on your roof, you get the monitoring, and you get the storage,” Nate Coleman, chief technology officer at SunPower, told CNET. “It’s all coming from a single company, all backed by a single warranty.”

Interested in understanding the impact solar can have on your home? Enter some basic information below, and we’ll instantly provide a free estimate of your energy savings.

SunVault’s size options are on the larger side. Even its smallest size (13 kWh) is comparable to a Tesla Powerwall. A single SunVault battery can hold between 13 kWh to 19.5 kWh. If 19.5 kWh isn’t enough, you can install an additional SunVault unit (also referred to as a double unit), to increase storage capacity up to 39 kWh.

Most of SunVault’s components are consolidated into one or two boxes, meaning you won’t need to have several boxes on the wall. Here’s what you can expect to be installed with a SunPower SunVault:

The SunVault offers large capacity sizes but doesn’t leave wiggle room for any smaller sizes in between. This makes capacity upgrades and finding a capacity size that’s “just right” for your home a bit more difficult. The SunPower SunVault can be installed as either a single unit or a double unit. Each unit contains a specific amount of battery modules.

A singular battery module holds 6.5 kWh. A single SunVault unit contains either two or three 6.5 kWh battery modules for a capacity of 13 kWh or 19.5 kWh. If you need more energy storage, an additional SunVault unit (double unit) can be installed. A double SunVault unit contains either four or six battery modules of 6.5 kWh each for a capacity of 26 kWh or 39 kWh. You won’t be able to install more than six battery modules, so if you hit 39 kWh, you’re at maximum capacity.

The SunVault’s performance and efficiency is a bit of a mixed bag. Let’s start with what lags behind the competition: It’s not the most efficient battery around. Most solar batteries we’ve seen have a round-trip efficiency of 90% or higher. The SunVault is rated at 86%. This means about 14% of the electricity generated by your solar panels will be lost on its way into battery storage.

The SunPower SunVault’s depth of discharge is 92%, which is just a bit lower than the average we’ve seen on other deep-cycle batteries (95%). Depth of discharge is essentially a limit of how much energy you can drain (discharge) from your battery all at once without risking damage. So in this case, you’ll be able to safely use 92% of the SunVault’s stored energy. Most manufacturers recommend you don’t completely drain your battery before recharging it.

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Now for the good: Performance-wise, the SunVault does about what you would expect for a battery of its size. A single SunVault unit has a continuous off-grid power output rating of 6.8 kW, and a double unit has a continuous off-grid power output rating of 13.6 kW. This means it shouldn't have too much trouble powering your appliances during a power outage. ✎

The SunVault is backed by a great warranty. Unlike most batteries, the SunVault's warranty doesn't include a cycle or throughput clause. This means there's no limit to the number of times you can cycle (drain and recharge) your battery while it's covered under warranty.

Years covered: This is the length of time your warranty is valid for. The SunVault is covered under warranty for 10 years, which is the industry standard. ✎

Cycles covered: Most manufacturers set a limit on how many times you can cycle (drain and recharge) your battery before the warranty ends. The SunVault's unlimited-cycle warranty means there's no limit to how often you use your battery. The SunVault is one of only a few batteries we've seen on the market that offers unlimited cycle coverage.

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