220 kWh energy storage battery

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But one of Savant Systems' newest innovations in the smart energy space is its Power Storage 20 battery. It's not just a battery that stashes energy away for later. The Power Storage 20 is part of an intelligent smart energy ecosystem, giving you more control of your energy usage, helping you save money on electricity costs and making sure you still have power during an outage.

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.

"What we're really trying to do is to enable customers to have intelligent control over their power and have the ability to power every aspect of their home, regardless of what's going on externally," Dylan Rup, a senior project manager of energy storage systems at Savant Systems, told CNET.

We did not conduct any hands-on testing for this review. Batteries are part of a complex home energy system that varies between households. Instead, this review is based on publicly available information online from Savant Systems and interviews with Rup and Nicole Madonna, vice president of product management for power at Savant Systems. The interview was conducted at RE+ 2023, a renewable energy trade show.

You're getting a lot of good stuff with the Power Storage 20: 18.5 kWh of usable capacity, an impressive continuous 12.5 kW power output and above-average system efficiency. The battery also comes with a 10-year warranty and helpful smart energy capabilities. The system itself is also narrow, meaning it won't take up too much space in your garage.

You can install the Power Storage 20 without solar panels as a standalone power source, but this system is better equipped to help you if you have solar. Here's a quick look at some specs.

The Savant Power Storage 20 system is made up of three main components: the battery modules, inverter and power director. Let's start with the battery modules.

The Power Storage 20 features a modular design, so the actual "battery" part of the Power Storage 20 is actually a bunch of smaller batteries installed together inside an enclosure. There are eight battery modules in total. Each module holds up to 2.5 kWh of energy and can be easily slid in and out of the main enclosure. It's almost like pulling out a drawer in a dresser or a filing cabinet.

One of the biggest benefits of a modular battery design is that it's typically easier to install. Lifting a small 2.5 kWh battery is a lot easier than lifting a giant 20 kWh battery. All the modules also come with pre-wired connections.

"For the actual [energy storage system], you can do it in less than an hour, and that was with one individual," Rup said. "Because every single component is 100 pounds or less."

The inverter sits at the top of the system, right on top of the battery modules. It's a 12.5 kW inverter, so it's plenty capable of handling more intense loads, like your electric vehicle or HVAC. But the inverter's main job is to take the DC electricity that your solar panels generate and turn it into AC electricity that your home can use.

The last component is the power director. This is a little box that sits on the wall next to the main battery system. The power director functions as a sort of middleman between the battery and your house. It runs energy management software, interfaces with the app to connect it with the rest of the system and communicates with any smart energy circuits you have.

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