



Solar cell energy storage 180 kWh

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The SOLIX X1 is the new home battery from Anker. Launched in April 2024, the X1 is the brand's entry into the very crowded home battery marketplace.

The X1 is a modular battery with a maximum continuous output of 6 kilowatts (kW) and energy capacity that can be adjusted from as low as 5 kilowatt-hours (kWh) to up to 30 kWh for a single unit, depending on the number of battery modules added. Up to six complete X1 systems can be installed in parallel for a maximum output of 36 kW and storage capacity up to 180 kWh.

The first thing you might notice about the X1 is that it's kind of beautiful (for a wall-mounted battery, anyway), with a sleek grey finish and a glowing blue light bar near the top. But is it any good? Let's check it out.

The Anker SOLIX X1 is one of the most exciting home batteries in recent memory. Its power output and energy storage capacity are fairly ordinary, but its modularity, performance at extreme temperatures, and design touches make it stand out.

The pros, combined with the backing of Anker, a very successful consumer electronics company, make the X1 stand out in the home battery market. Based on the specifications, warranty coverage, and corporate performance of Anker, the SOLIX X1 measures up with some of the best solar batteries.

That said, the SOLIX X1 is a brand-new product, so there are some questions to answer about performance and compatibility with utility company programs. We're curious to see how the SOLIX X1 performs in real-world testing, what the full pricing details are, how many installers will work with Anker, and whether the battery will qualify for virtual power plant (VPP) programs in the future.

The Anker SOLIX X1 looks like a sleek stack of batteries but is actually made up of three separate components that each perform important system functions: the power module, battery modules, and backup controller.

The power module sits atop a stack of battery modules and contains the "brains" of the battery system, as well as the inverter to turn DC power stored in the batteries to AC electricity used in your home. It contains a screen with information about the battery's state of charge, power input/output, Wi-Fi status, and more. Under the screen, an interactive light strip glows white, blue, or red to indicate whether the system is in on-grid or off-grid backup mode or if an issue needs to be resolved.

The battery modules each hold 5 kWh of lithium ferro phosphate (LFP) cells. Between one and six battery modules can be installed in connection with a single power module.



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The backup controller is a separate box that connects the battery to the rest of your home to provide power. It contains a 2-way connection between the battery and the home's electrical panel, an AC solar input for power flowing from a separate solar inverter, and a generator circuit that allows the battery to be charged with a backup generator in the event of a power outage.

All together, the SOLIX X1 can perform many different tasks, including daily charging and discharging with solar power, off-grid backup mode, peak-time sell back under California's NEM 3.0, and Storm Guard mode, which automatically detects and prepares for weather-related power outages.

5 - 30 kWh (1 to 6 battery modules per power module)

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