



# Home energy storage distribution box

What is a home battery storage system?

Home battery storage systems, combined with renewable energy generation (including solar), can make a house energy-independent and help better manage energy flow. Excess electricity and energy stored in the battery during the day will help feed the house during peak consumption and energy cost periods.

What is a home energy management system?

Energy Star calls them "home energy management systems," but the idea is the same: They accomplish a lot of the same goals as full smart panels, but on a smaller scale and generally at a lower price. If you don't need to put in an entire electrical panel as part of a new build or gut renovation, these controllers can make a lot of sense.

How safe is the battery-box?

The Battery-Box meets the highest safety standards like VDE 2510-50 (HVS/HVM/LVS) and receives many awards and seals. In the independent Energy Storage Inspection of the university HTW Berlin, the Battery-Box is ranked as the battery with the highest efficiency on the market. Battery-Box Premium HVS

What power discretions can you provide?

We can provide a wide range of power discretions, including silicon-carbide (SiC) and silicon power MOSFETs, diodes and isolated gate drivers. Our portfolio features high-performance STM32 microcontrollers and energy metering ICs to help develop and design high-efficiency and cost-effective home battery storage systems.

What is a BYD battery-box premium LVL?

The BYD Battery-Box Premium LVL is a lithium iron phosphate (LFP) battery for use with an external inverter. Thanks to its control and communication port (BMU), the Battery-Box Premium LVL scales to meet the project requirements, no matter how large they may be.

What is a battery-box premium HVS?

One Battery-Box Premium HVS is composed of 2 to 5 HVS battery modules that are connected in series to achieve a usable capacity of 5.1 to 12.8 kWh. Additionally, direct parallel connection of up to 3 identical Battery-Box Premium HVS allows a maximum capacity of 38.4 kWh. Ability to scale by adding HVS modules or parallel HVS stacks later.

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