



# Avalon Fortress Power

What is the Avalon energy storage system?

The Avalon Energy Storage System is made up of a stackable, slim designed High Voltage Battery that pairs with a High Voltage Inverter providing solar storage and backup power. Add the Avalon Smart Energy Panel to allow for full control over your backup power all from a smartphone app. panel with load management.

Does fortress power have a high-voltage energy storage system?

US-based Fortress Power has announced its entry into the high-voltage energy storage residential market. It marked this milestone with the installation of its first residential Avalon System in late December. The Avalon HV ESS system features a smart energy panel, customizable battery stack, and inverter.

How much power does the Avalon system use?

Operating at 200 V to 300 V at the DC terminal, the Avalon System closely matches PV array voltage, reducing the need for DC to DC conversion which, according to the manufacturer, enhances overall operational efficiency by approximately from 6 to 8%. The system includes a 7.6 kW or 11.4 kW inverter.

How much power does the Avalon smart energy panel have?

The system includes a 7.6 kW or 11.4 kW inverter. It has four MPPTs with a voltage range of 80 V to 520 V and maximum input current per string of 16 A. The Avalon Smart Energy Panel manages large loads in the house to stop the inverter from tripping.

How does Avalon HV ESS work?

It marked this milestone with the installation of its first residential Avalon System in late December. The Avalon HV ESS system features a smart energy panel, customizable battery stack, and inverter. The system works inside and outside and is scalable up from 14.4 kWh to 176 kWh. It can be DC- or AC-coupled, with 200 A pass-through.

How long does Avalon battery last?

Avalon boasts a cycle life of more than 8,000 cycles and comes with a 10-year warranty. The system is based on tier 1 automotive grade lithium iron phosphate (LFP) battery cells.

The Fortress Power Avalon High Voltage Energy Storage System represents a significant advancement in residential energy storage, offering a comprehensive and intelligent solution for modern homes. Designed with both efficiency and ...

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