



540 kWh solar lithium battery inverter set

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Its new line of residential hybrid storage systems integrates Kstar inverter technology with the lithium-ion storage technology of Chinese battery specialist CATL.

The BluE-S-5000D series, which combines KSTAR inverters with a CATL battery solution.

Chinese inverter manufacturer Kstar has unveiled a new series of residential hybrid storage systems that integrates its own inverter tech and the lithium-ion storage solutions of China's Contemporary Amperex Technology (CATL).

Its BluE-S-5000D series - described as an "all-in-one" single-phase storage solution - includes two different products. BluE-Pack-5.1 and BluE-Pack-10.2 offer storage capacities of 5.12 kWh and 10.24 kWh, respectively. Both devices use LiFePO₄ as the cathode material and have a rated voltage of 51.2 V. Both systems are also said to ensure 5,300 cycles and have an operating voltage range of 44.8 to 57.6V.

The systems feature an ambient operating temperature range of -20 degrees Celsius to 50 degrees Celsius and a storage temperature range of -30 degrees Celsius to 60 degrees Celsius. The storage systems be connected in series for a maximum of four devices.

The BluE-Pack-5.1 device has dimensions of 540 x 500 x 240mm and weight of 48kg, while the BluE-Pack-10.2 measures 540 x 980 x 240mm and weight 95kg. Both systems have a five-year product warranty and 10-year performance guarantee.

As for the two inverters embedded in the solutions, they have a power rating of 4.8 and 6.5 kW, respectively, and both offer a maximum input voltage of 580 V. Both devices have two maximum power point tracking (MPPT) inputs and an MPPT range of 120-550 V.

Both inverters measure 540 x 640 x 240mm and weigh 30kg. Their reported efficiency is 97.6%, for a European efficiency rating of 97%. The devices can operate at temperatures between -20 degrees Celsius and 60 degrees Celsius.

According to the manufacturer, the solution was designed to offer customers a fast response and uninterruptible power supply.

"The single-phase hybrid inverter features an intelligent modular design and online monitoring via the ESS app, as well as a programmable time-of-use tariff in certain countries," stated Kstar. "The BluE-S-5000D series is IP 65 designed, providing better protection against water and dust while being aesthetically pleasing."



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Looks like a typo on the product names in the dimensions paragraph. As written, one product has two different sets of dimensions, while the other product was left out.

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