

# Smart Energy Block Energy Storage System Solution

Voltage range

**636V-876V**

Rated voltage

**768V**

Cell type

**Lithium iron phosphate**





## Overview

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What is a SmartStack battery energy storage system?

U.S.-based Fluence Energy has launched its latest grid-scale battery energy storage system (BESS) solution Smartstack, featuring an innovative design that facilitates logistics and maintenance, while delivering high energy density. The system features 314 Ah cells and offers up to 7.5 MWh of energy storage.

Are energy storage system integrators moving to AC block solutions?

In a recent ESN Premium article, various energy storage industry experts and executives discussed the shift toward system integrators and manufacturers more commonly offering AC block solutions, which integrate power electronics and other balance of plant within the BESS enclosure, in addition to or instead of DC blocks.

What is a SmartStack inverter?

The modular AC block architecture integrating the inverter and other balance of plant equipment within the enclosure is currently patent pending. Within the industry's ongoing appetite for higher energy density solutions, Fluence claimed the Smartstack design enables up to 7.5MWh storage capacity using 300Ah battery cells.

What is a containerized energy storage solution?

A containerized energy storage solution makes it easier to ship and transport the storage system to the last mile without much hassle.

Is SmartStack a DC or AC block?

While the offer of DC blocks is much bigger today, Smartstack is an AC block, which means a container with both battery and power conversion system (PCS) integrated inside. This product type was pioneered by Tesla, in the company's 2022 Megapack redesign. More recently, Sungrow, Rimac and



Wartsila have also launched their AC block solutions.

What is the temperature range of the SmartStack battery enclosure?

The battery enclosure has IP 55 rating. The operating temperature range is from -20°C to +55°C and can be even -30°C to +55°C with an additionally installed cold weather kit. Smartstack is now commercially available for grid-scale applications worldwide with customer deliveries scheduled to begin in the last quarter of 2025.



## Smart Energy Block Energy Storage System Solution

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 LFP 12V 200Ah



### [Fluence launches Smartstack AC block BESS solution ...](#)

The solution allows customers to combine multiple units of a Battery Pod, containing the battery cells, onto Fluence's new Smart Skid, ...

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The smart energy block energy storage solution market is experiencing robust growth, driven by increasing demand for renewable energy integration, grid stability ...

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Called Quantum 3, the BESS system is housed in an ISO container, making it easier to ship globally, and is ready for deployment as soon as it arrives on site. With solar and ...

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Introduction In today's power systems, growing demand, aging infrastructure and system constraints, as well as the increasing renewable energy portfolio, have amplified the need for ...

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### **Fluence Smartstack**

Eliminates the need for the giant cranes typically used for large 50-ton block storage, simplifying shipping and logistics. Installs faster than competing AC storage systems. Maximizes density, ...

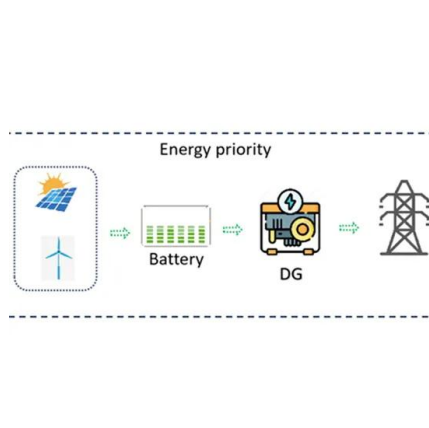
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The smart energy block market relies heavily on **\*\*system integrators and software providers\*\*** to optimize energy storage, grid interaction, and demand-response capabilities.

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