

## 540 kWh microgrid energy storage

Alfen has released a new line of battery storage modules with 360 kWh, 540 kWh, or 720 kWh of capacity. The fully integrated systems are developed for events, festivals, construction sites, maritime applications, and EV charging hubs.

Alfen, a Netherlands-based energy storage specialist, has unveiled the latest additions to its battery energy storage offering - modular and mobile solutions with 360 kWh, 540 kWh, or 720 kWh of capacity. The solutions are on show at Intersolar Europe, happening this week in Munich, Germany.

"An evolution of its compact 10ft mobile container unit, Alfen's most advanced battery system to date delivers an emission-free, quiet and fast-deployment alternative to power a variety of applications from events, festivals and construction sites to maritime applications and EV charging hubs," the company said in a statement. "A mobile plug-and-play system, it also supports small grid connections, enabling users to increase the capacity of their local connection or provide a solution for weak grid connections or grid balancing services."

"Its easy plug-and-play format enables a wide range of use cases," the manufacturer said. "For example, units can be used standalone, as part of a local microgrid at a business location, grouped to increase power output, or as additional power for peak loads (peakshaving)."

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Schneider Electric's all-new Battery Energy Storage System has been tested and validated to work with EcoStruxure Microgrid Flex, a faster-to-implement standardized microgrid system designed to meet resilience, energy efficiency, and sustainability needs.

Energy management company Schneider Electric announced a new Battery Energy Storage System (BESS) for microgrids. It is available in two enclosure sizes and has different storage and discharge configurations.

"Comprised of a battery system, battery management system, power conversion system, and controller, BESS has been tested and validated to work as an integral component of Schneider Electric's standardized



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microgrid system, EcoStruxure(TM) Microgrid Flex," the company said in a statement. "It is fully integrated into the software suite, which includes EcoStruxure Microgrid Operation and EcoStruxure Microgrid Advisor."

The BESS 7 foot long enclosure has a power of 60 kW or 90 kW and maximum storage of 246 kWh, with a discharge configuration of two or four hours. It weighs 3.6 metric tons, and it is AC and DC coupled. On the other hand, the BESS 20 foot long enclosure has a power of 250 kW, 375 kW, or 500 kW, and maximum storage of 1,720 kWh, with a discharge configuration of two or four hours. It weighs 25 metric tons, and it is AC coupled only.

"The BESS is a fully self-contained solution built upon a flexible, scalable, and highly-efficient architecture delivering flexibility, helping to minimize energy costs and maximize renewable energy," the company added. "As part of a microgrid system, the BESS leverages onsite generation sources to optimize the entire system, delivering energy and cost savings while maximizing usage of renewables."

Both enclosures use lithium-ion iron phosphate (LFP) batteries, which have a rated calendar life of 15 to 20 years and more than 6,000 cycles. The BESS's operating temperature ranges from -4 F to 122 F, and Schneider Electric offers a three-year warranty.

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