

# **ALTECH DEVELOPS CERENERGY® 60KWh (ABS60) A SUSTAINABLE BATTERY SOLUTION FOR INDUSTRIAL USE**

## **Highlights**

- Altech plans to produce environmentally friendly and cost-effective solid-state sodium alumina batteries with high-performance 60 KWh battery packs (ABS60).
- With a rated power of 620 volts and 100 Ah, the battery is especially suitable for use with renewable energies in the grid infrastructure and in the commercial / industrial sector.
- Weatherproof design allows the battery to be used outdoors without additional construction.
- Larger ABS60 battery pack further reduces storage cost per kWh.

Heidelberg (pta044/07.11.2022/14:40): Altech Advanced Materials AG (Altech) (FRA: AMA1) plans to produce battery packs specifically for operation with renewable energies in commercial and industrial grid infrastructure as part of the battery joint venture with Fraunhofer (see Corporate News of 13 September 2022). On the basis of preliminary discussions with potential major customers of the CERENERGY® Sodium Alumina Solid State (SAS) batteries, the requirement profile of the market for grid storage specifically with renewable energies was adapted with the battery pack ABS60 (60kWh). The ABS60 will have a voltage of 620 volts and 100 ampere-hours (Ah) and thus exactly meet the requirements of a high-performance industrial grid storage.

## **Environmentally friendly and low in raw materials**

CERENERGY® batteries are a forward-looking alternative to conventional lithium-ion batteries for grid storage and stationary use in industry. CERENERGY® batteries are fire and explosion proof, have a lifetime of more than 15 years and function efficiently in extremely cold and desert climates without additional cooling or heat supply. CERENERGY® battery technology uses common salt and is free of lithium, cobalt, graphite and copper, eliminating dependence on metal prices and supply chain issues of critical and increasingly scarce raw materials. CERENERGY® batteries are produced in Germany with local supply chains, responsibly and environmentally friendly.

The ABS60 battery pack consists of 240 CERENERGY® cells (with a nominal voltage of 2.5 V each) arranged in four rows of 12 cells each, five cell modules high. The battery packs can be installed outdoors in all weather conditions. As the ABS60 batteries are fireproof, they can also be safely installed indoors, unlike standard lithium-ion batteries. This represents a major competitive advantage compared to the safety-critical lithium-ion battery.

## Renewable Energy and Grid Storage Applications

Renowned forecasts predict that the market for grid storage will grow by around 28 % annually in the coming decades. The global market for battery storage systems is expected to grow from USD 4.4 billion in 2022 to USD 15.1 billion in 2027. In the longer term, it is expected to grow from 20 GW in 2020 to over 3,000 GW in 2050. The CERENERGY® batteries can provide high security at low acquisition and operating costs for stationary energy storage market.

It is planned to produce the CERENERGY® batteries in a 100 MWh annual capacity plant in Schwarze Pumpe, Saxony. A joint venture to build and operate the plant has been established by Fraunhofer IKTS ("Fraunhofer") and the Altech Group. A feasibility study is currently being prepared (see Corporate News of 26 October 2022). The battery factory is now being designed to produce ABS60 battery packs as a standard product for the European grid storage market specifically with renewable energies. Fraunhofer estimates that the cost of manufacturing CERENERGY® batteries will be around 40 % lower than the lithium-ion batteries currently in use.

Altech Advanced Materials AG

The Management Board

## About Altech Advanced Materials AG

Altech Advanced Materials AG (ISIN: DE000A2LQUJ6), headquartered in Heidelberg, Germany, is a holding company listed on the Regulated Market of the Frankfurt Stock Exchange. The company's goal is to participate in the market for lithium-ion batteries for electromobility through innovative and high-performance anode material based on high-purity alumina oxide (HPA). Another focus is on solid-state batteries for stationary battery applications.

Further information at: [www.altechadvancedmaterials.com](http://www.altechadvancedmaterials.com)

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