

SVOLT introduces “Dragon Armor” battery, achieving breakthrough in EV battery safety

Frankfurt am Main/Changzhou, December 21, 2022 – On December 15, Chinese energy technology company SVOLT Energy Technology Company Limited unveiled the third generation of cell-to-pack solutions called “Dragon Armor” at the 3rd SVOLT Battery Day. The company uses cutting-edge technologies to raise the overall safety of the car battery to an even higher level. As a system solution that enables both a high level of safety and a long range, the battery can realize a range of up to 800 km for e-vehicles in LFP applications.

A key advantage of the Dragon Armor battery is its safety. The biggest safety risk of battery packs mainly comes from thermal runaway of individual cells. SVOLT therefore uses an innovative design consisting of a short-blade cell with a degassing valve at the bottom, thus creating a thermal-electrical separation. This isolates the electrical contact area from the degassing and reduces the likelihood of component failure due to a high-voltage arc or ignition. If a fire occurs in a single cell, it is prevented from spreading to the entire pack. The design also facilitates vehicle integration and comprehensively improves the safety level from a single unit to the entire system.

The LFP cell and pack have higher energy density, with pack density in the overall system as high as 76%, bringing a breakthrough in range. In addition, the Dragon Armor battery has other performance advantages. For example, the NCM chemistry supports 4C fast charging and expandable CTC, is compatible with various chemistry systems, and can be used in a variety of applications from subcompact to mid-size cars.

Worldwide pre-orders for Dragon Armor batteries have been available since December 15. First deliveries for installation in new vehicle models will be realized ready in 2023. The Dragon Armor battery can balance safety and range.

PRESS RELEASE

About SVOLT

As a global high-tech company and spin-off of the Chinese automobile manufacturer Great Wall Motors, SVOLT Energy Technology Co., Ltd. (SVOLT) produces lithium-ion batteries and battery systems for electric vehicles and energy storage systems. SVOLT's comprehensive one-stop product portfolio includes battery cells, modules and packs as well as battery management systems and software solutions. The company combines in-depth systemic knowledge of battery systems and management with comprehensive expertise in the field of vehicle integration. SVOLT is headquartered in Jintan District, Changzhou, Jiangsu province in China. The home office of the European subsidiary SVOLT Energy Technology (Europe) GmbH is in Frankfurt am Main. SVOLT employs around 12,000 people worldwide, with 3,000 employed in research and development (R&D). Learn more at svolt.cn/en/ | svolt-eu.com

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