

Svolt Energy commences mass production of 80-kWh PHEV battery in mainland China

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The 80-kWh fortress 2.0 pack boosts capacity over the prior generation, adds 6C fast charging and enhanced thermal safety, and targets large PHEV family vehicles

Svolt Energy has begun mass production of its high-capacity Fortress 2.0 battery for plug-in hybrid electric vehicle models. The 80-kilowatt-hour battery has rolled off the production line at Svolt's plant in Changzhou, Jiangsu province, in mainland China.



Source: Getty Images/eunju choi

Svolt Energy calls its 80-kWh Fortress 2.0 battery the largest PHEV battery developed in mainland China. Its capacity represents a 35.6% increase from the previous generation's 59-kWh system and is primarily aimed at large family vehicles and off-road applications.

Svolt's Fortress 2.0 battery system features a highly integrated engineering design, achieving a 6% increase in both overall volumetric utilization and energy density compared to its predecessor. D-class plug-in hybrid models equipped with this battery are expected to have an all-electric range exceeding 400 kilometers, which Svolt said will significantly reduce charging frequency for users.

The battery also supports peak 6C fast-charging technology, enabling it to replenish enough power for over 400 km of all-electric driving in under 10 minutes.

For thermal management, the battery pack applies nano-thermal ceramic insulation materials for the first time, designed to ensure it does not catch fire for 30 minutes under high temperatures of 1,000°C.

Svolt said that this high-capacity PHEV battery will soon debut on a new PHEV model scheduled to be unveiled at the Beijing Auto Show opening later in April. The company noted that battery capacities for hybrid models in mainland China have been increasing in recent years as consumers seek to eliminate range anxiety while maximizing lower-cost pure-electric driving.

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