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Last year the firm established a pilot production line at its R& D centre in the north western city of Suwon, and is currently delivering prototype samples to OEMs.

The solid-state batteries will have an energy density of 900 watt-hours per litre -- a 40pc improvement on the energy density of the firm's P5 lithium-ion battery currently in production.

Solid state batteries have the potential to offer better energy density, faster charging times, a wider operating temperature range and a simpler, more scalable manufacturing process than conventional lithium-ion batteries.

US solid state battery firm Quantum Scape (QS) has also seen "exceptional results" from prototypes of its first commercial solid state battery -- due to be launched in 2025. The firm shipped its first prototype cells to prospective customers in the forth quarter of last year, and has been progressively releasing results from its testing.

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