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SDI, ?SDI?IT,,? SNE,2022, SDI 5% ?2022, SDI, 2023 ...

As electromotive transportation, electric vehicles have batteries as the only source of energy as well as the main determinant of a driving range, output, and charging speed. Since batteries go into plug-in hybrid electric vehicles (PHEV) along side an internal combustion engine, implementing high capacity and efficiency of a battery in limited space is vital to enhance the driving performance of PHEVs. SAMSUNG SDI leverages its innovative engineering to make high-capacity, energy-dense, and fast-charging batteries for EVs and PHEVs while pioneering automotive battery technology with the lead in developing and mass-producing all solid-state batteries - a force to be reckoned with in the battery industry for their revolutionizing features of higher energy density and safety.

For premium-segment electric vehicles, most advanced battery technology is the prerequisite for delivering their desired performance in terms of a long range, high power and fast charging. SAMSUNG SDI makes it all possible by applying high-capacity materials and high-efficiency design engineering to batteries that warrant the highest level of safety implemented by our unrivaled technology in prismatic and cylindrical batteries .

SAMSUNG SDI also offers a battery solution catered to the need of mass-market electric vehicles, boasting affordable pricing yet reasonably high performance enabled by high-efficiency design engineering. Our price competitiveness derives from the adoption of cobalt-free materials and optimized electrode design.

SAMSUNG SDI is ushering the field of all solid-state battery technology. Boosted by its own "super-gap" technology, SAMSUNG SDI's anode and solid electrolytes serve to significantly improve energy density and safety in our battery products. In 2023, SAMSUNG SDI completed the world's biggest pilot production line for solid-state batteries, "S-Line," and plans to begin the world's first-ever all solid-state battery mass-production in 2027.

A plug-in hybrid electric vehicle houses batteries with internal combustion engine systems and a motor, which limits its space availability. To address this unique setting of PHEVs, SAMSUNG SDI provides an ideal battery solution crafted with high-capacity materials, high-efficiency stacking technology as well as high output technology. That means a PHEV geared with SAMSUNG SDI's solution can store more battery energy in such limited space and have batteries with optimized internal structure while its motor and batteries run at the top level of efficiency.

Energy storage systems (ESS) store and supply electricity when needed. SAMSUNG SDI presents a holistic range of ESS battery products spanning from a household solution and a utility, commercial, and industrial solution integrated with renewable energy sources to an uninterruptible power supply (UPS) solution designed for securing uptime of facilities such as data centers.

Utility, commercial & industrial-scale energy storage systems (ESS) play an integral role in complementing power generation variability as they work to level off power fluctuations while improving power quality in renewable integration. SAMSUNG SDI" batteries stand at the forefront of ensuring power grid stability with maximum performance that guarantees safety and economic value.

SAMSUNG SDI's uninterruptible power supply (UPS) solution demonstrates an unmatched level of performance, efficiency and safety. Applied to large-scale UPS systems encompassing data centers, communication facilities, schools, and medical facilities, our ESS batteries will make sure of constant, stable power supply even during an outage, thereby preventing data loss and system disruption.

A household energy storage system stores energy generated from a home solar energy system. It serves to improve energy self-consumption, save electricity costs and supply backup power during an outage. Fueling the demand for home-use ESS are rising usages such as EV charging, and virtual power plant (VPP) participation in electricity markets. SAMSUNG SDI offers an optimized solution for safe and compact home ESS batteries devised with a diverse set of battery capacities and voltages, along with long-life cylindrical cells.

Micro mobility is small, light-weight last-mile transportation and comes in forms of e-kickboards, e-bikes, and e-scooters. In highly dense cities where costs of owning a car and living keep rising, micro mobility is drawing more and more popularity for its affordability, easiness and eco-friendliness. SAMSUNG SDI leverages high-level materials and component technologies to make the best available batteries out there for micro mobility that is sleek, light, convenient, and sustainable.

Equipped with an electric motor and batteries, electric bicycles let riders go farther with less effort. In the backdrop of e-bikes" evolution where energy-dense batteries are increasing the range with much less weight, SAMSUNG SDI is riding the wave to provide small batteries with high energy density and safety for slimmer and lighter e-bikes.

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