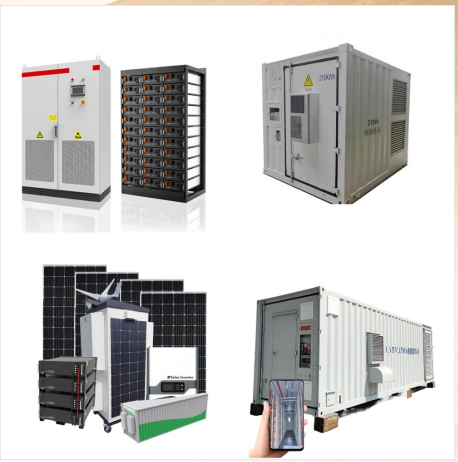
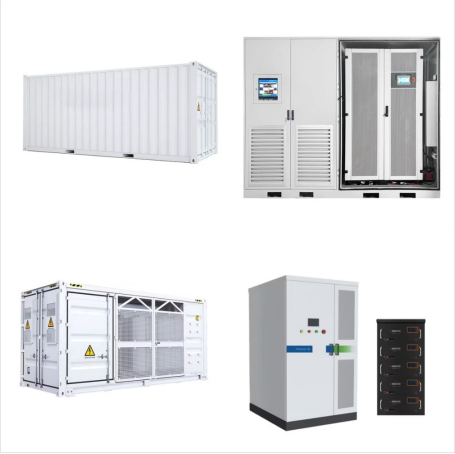
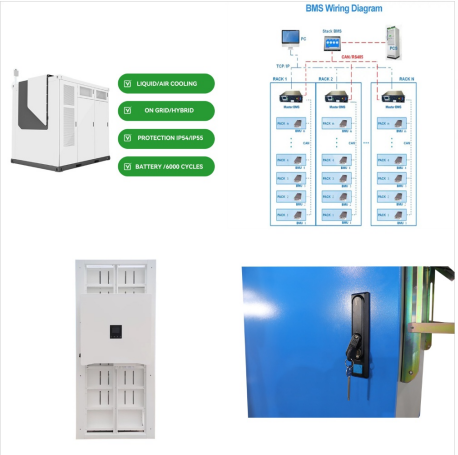


Samsung SDI has developed a new type of uninterruptible power supply equipped with an intelligent power-saving mechanism that prevents power outages and saves on electricity bills.. The new system, called UES, incorporates the energy-saving feature of energy storage system into an uninterruptible power supply. Samsung SDI has started running the UES at its ???

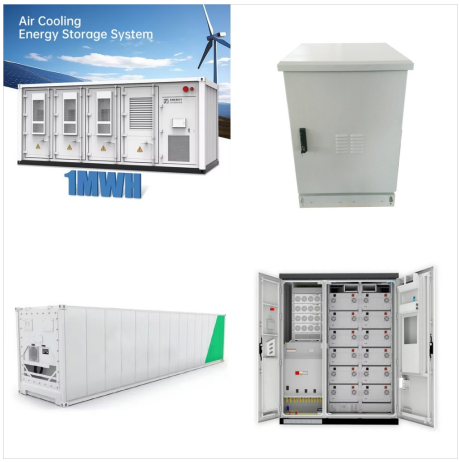


Samsung SDI (KRX:006400), the world's leading manufacturer of lithium-ion batteries, and ABB, the leading power and automation technology group, have signed a memorandum of understanding to establish a strategic commercial alliance.Samsung SDI and ABB join forces to develop and market microgrid systems that comprise energy storage solutions.

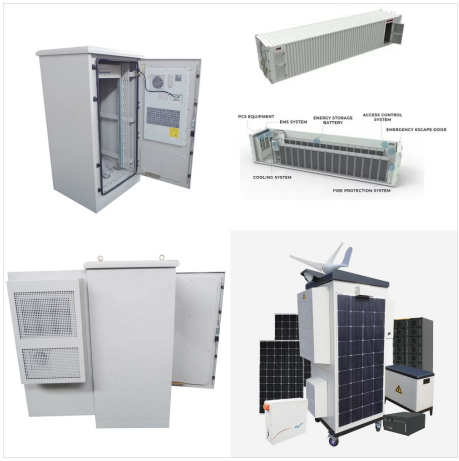


Established Samsung SDI Started LIB (Lithium-ion battery) business 2000 2008 Started LIB business for automotives 2010 Started LIB business for ESS Entered residential ESS market in Japan 2011 SAMSUNG SDI Energy Storage System ???

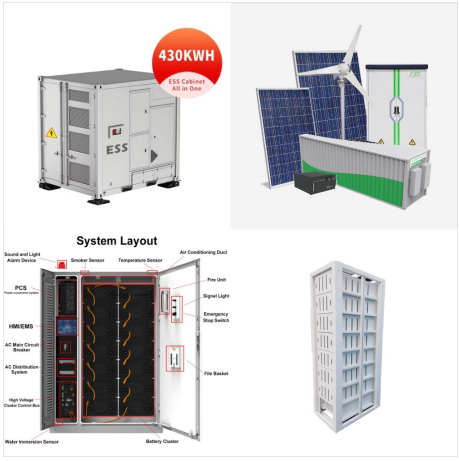
SAMSUNG SDI LITHIUM ION MICROGRID ENERGY STORAGE SYSTEM



Last week, SDG& E showcased the world's largest lithium-ion battery energy storage facility in partnership with AES Energy Storage, which will enhance regional energy reliability while maximizing renewable energy use. ???

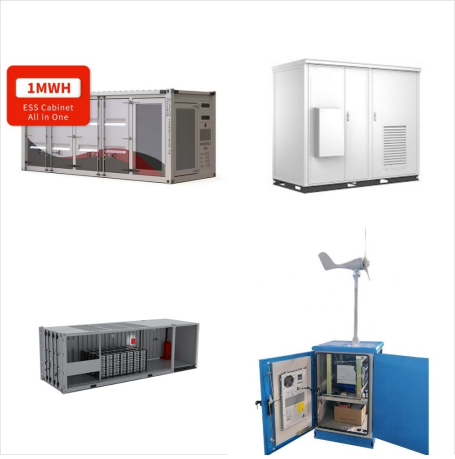


Samsung SDI will supply its lithium-ion batteries to a Japanese company building a 1MW solar farm, with the deal expected to then go on to furnish an initial 20 solar farms with batteries. Edison Power, based in Tokyo, provides development services for solar power plants as well as energy management systems and distribution of large-scale

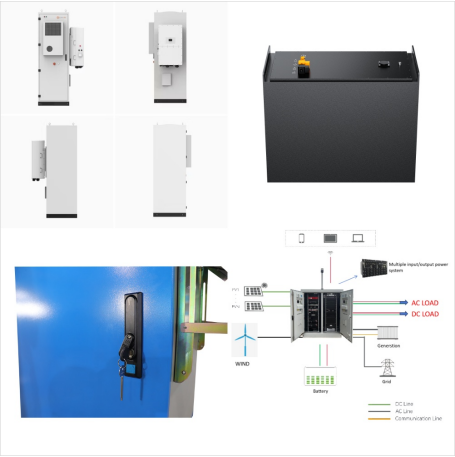


The Samsung SDI 128S and 136S energy storage systems for data center application are the first lithium-ion battery cabinets to fulfill the rack-level safety standards of the UL9540A test for Energy Storage Systems (ESS), which was ???

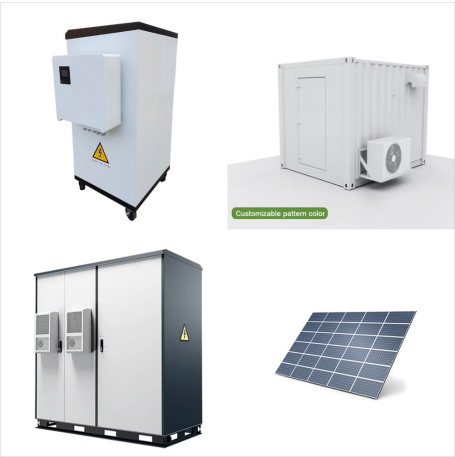
SAMSUNG SDI LITHIUM ION MICROGRID ENERGY STORAGE SYSTEM



SAMSUNG SDI-ESS (Lithium-ion storage 3.6 kWh) LI-ION BATTERY SOLUTION FOR HOMES. All-in-one solution for homes Energy Management System: Monitoring (Device / Remote) Web, Mobile: Software update: via Internet: More information: SAMSUNG SDI-ESS Product Brochure; SAMSUNG SDI-ESS User Manual;

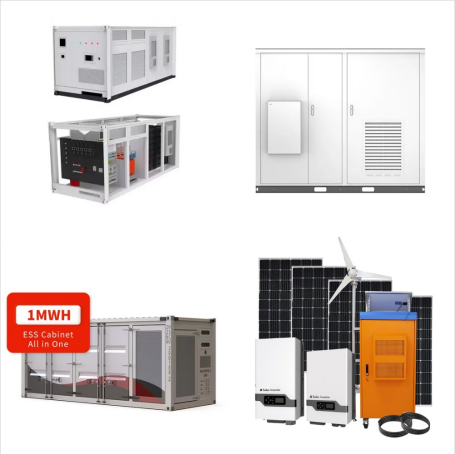


ENERGY STORAGE SYSTEM for Home SAMSUNG SDI provides the energy storage system which fits to your demand. SAMSUNG SDI 02 / 03 Lithium-ion battery Power 2 kW 2 kW Nominal Capacity 3,6 kWh 5,5 kWh Usable Capacity 3,24 kWh 5,0 kWh Product Dimension 1.000 x 267 x 680mm

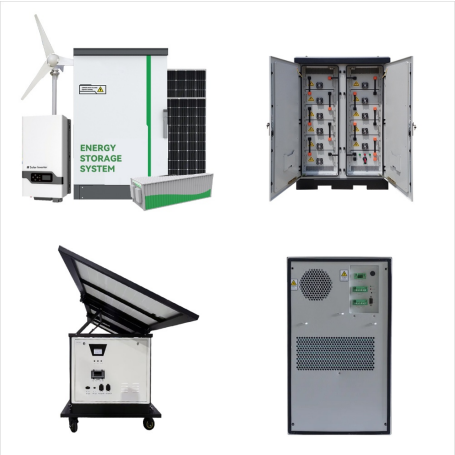


Samsung SDI Co. Ltd. stands out as a top provider of lithium-ion energy storage batteries solutions. They offer a full range of products and services that fit the specific power grid and energy needs of different countries. Samsung SDI focuses on designing, making, and setting up complete energy storage battery systems.

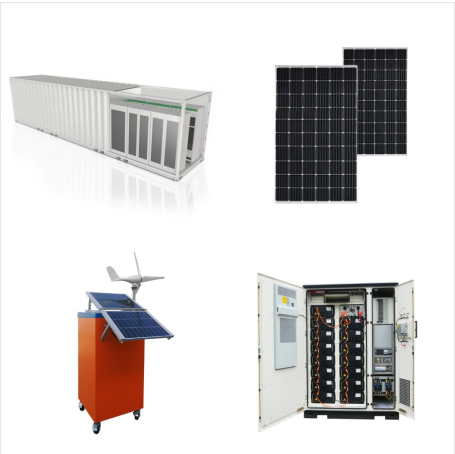
SAMSUNG SDI LITHIUM ION MICROGRID ENERGY STORAGE SYSTEM



The Samsung SDI combines the functions of a dual-function inverter, a battery inverter and a lithium-ion battery into one compact unit. The system's integrated inverter increases efficiency by ensuring energy is only converted into AC current once. The small unit allows the system to be installed internally in most rooms.

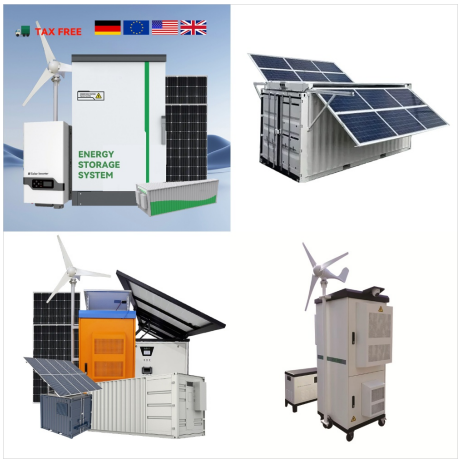


Samsung SDI Energy Storage System 11 Bene???ts of Lithium-ion Batteries Why Samsung SDI Product Lineup Item Model Cell Capacity Energy Operation Voltage Dimension (W x D x H) Weight Module U6-M020 67 2.0 24~33.6 216 x 414 x 163 17 Rack U6-R035 67 35 408~572 650 x 600 x 2,055 550 Only Samsung SDI can provide a 10 minute backup battery solution ?

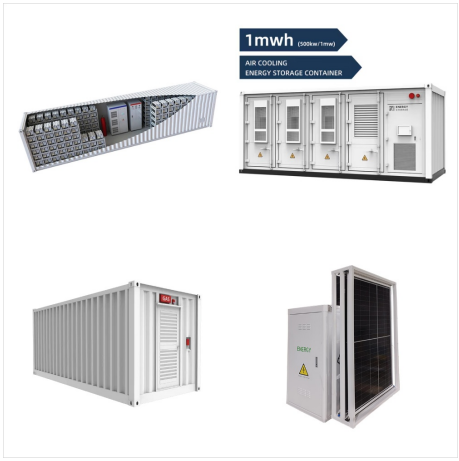


Lithium-ion Battery Performance Features: Footprint Weight Usable / Lifespan / Cycle count Reliability Initial cost Maintenance cost Operating temperature The Samsung SDI 128S and 136S energy storage systems for data center application are the first lithium-ion battery cabinets to fulfill the rack-level safety standards of the UL9540A test for Energy Storage Systems (ESS), which ???

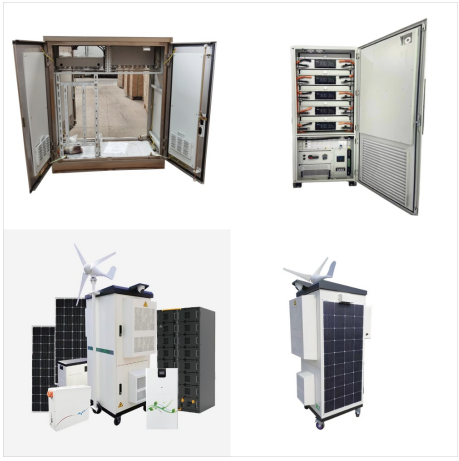
SAMSUNG SDI LITHIUM ION MICROGRID ENERGY STORAGE SYSTEM



Lithium-ion Cycle Life 6,000 Samsung SDI l Energy Storage System 07. Battery Module & Tray Module Item M2994 M2963 / M2968 Cell type Prismatic Prismatic Energy kWh 2.8 2.0 SAMSUNG SDI Energy Storage System MAR.2016 Hefei office CHINA TEL +86-551-6532-7653

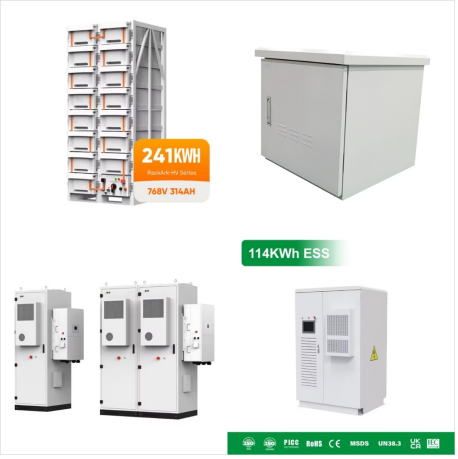


A partnership to take on the micro-grid sector has been formed by battery maker Samsung SDI and ABB, the Swiss-headquartered power and automation specialist. The two companies announced the signing of a memorandum of understanding (MoU) last week to promote micro-grids, with lithium-ion battery systems as an integral component in all territories.

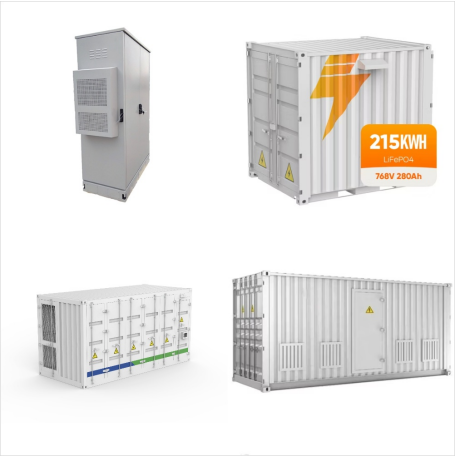


Spanning from the size of kWh to MWh, Samsung SDI supplies various ESS solution ??? residential, utility, commercial, UPS and base transceiver station ??? applicable to your everyday life, leading the green energy industry.

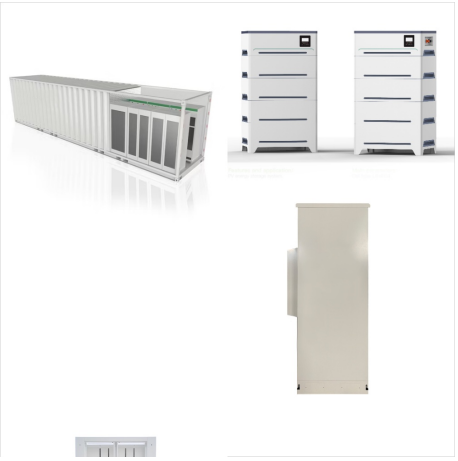
SAMSUNG SDI LITHIUM ION MICROGRID ENERGY STORAGE SYSTEM



Samsung SDI Co. Ltd. unveiled two residential energy storage systems (ESS) at Intersolar Europe 2015 in Munich, Germany. New products that Samsung SDI introduced at this time, 5.5kWh and 8.0kWh, were designed in addition to the existing 3.6kWh system to address full segments of German residential ESS market.

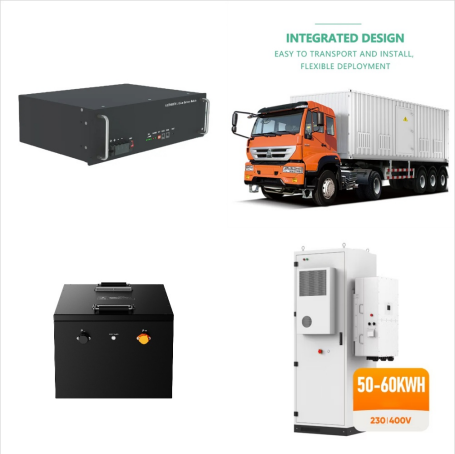


Last week, SDG& E showcased the world's largest lithium-ion battery energy storage facility in partnership with AES Energy Storage, which will enhance regional energy reliability while maximizing renewable energy use. The 30-MW energy storage facility is capable of storing up to 120 MWh of energy, the energy equivalent of serving 20,000 customers for four hours.

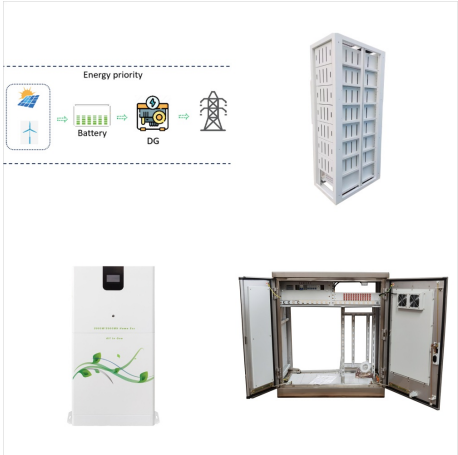


The energy storage system is based on high power, low resistance Lithium-ion Nickel-Cobalt-Manganese (NCM) cell in a standard VDA format that is built into a modular structure. Equipped with a compact integrated liquid cooling system the PHEV energy storage system is characterized by its high energy and lightweight.

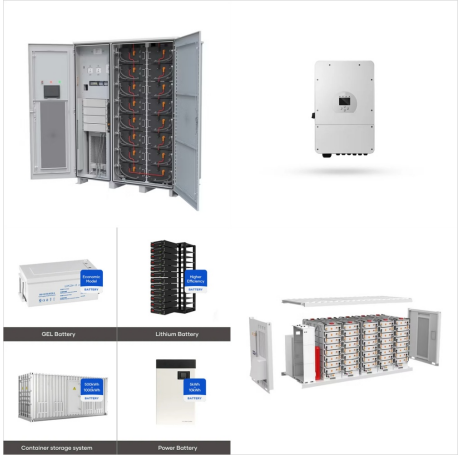
SAMSUNG SDI LITHIUM ION MICROGRID ENERGY STORAGE SYSTEM



TEL +82-31-8006-3281 E-mail energy.storage@samsung KoreA SAMSUNG SDI reserves the right to modify the design, packaging, specifications and features shown herein, without prior notice or obiligation. Samsung SDI Battery System eSS (Energy Storage System) Utility-Scale Commercial Residential UPS Telecom Samsung SDI's lithium-ion

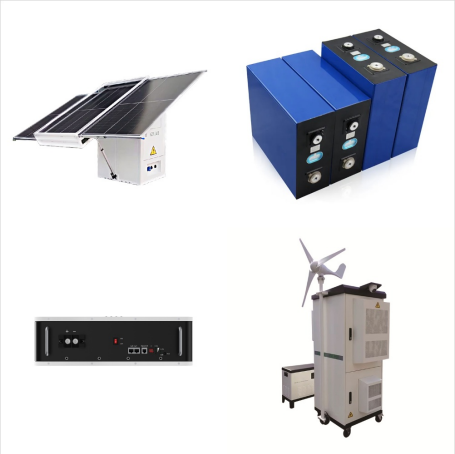


In the electrical energy transformation process, the grid-level energy storage system plays an essential role in balancing power generation and utilization. Batteries have considerable potential for application to grid-level energy storage systems because of their rapid response, modularization, and flexible installation. Among several battery technologies, lithium-ion ???

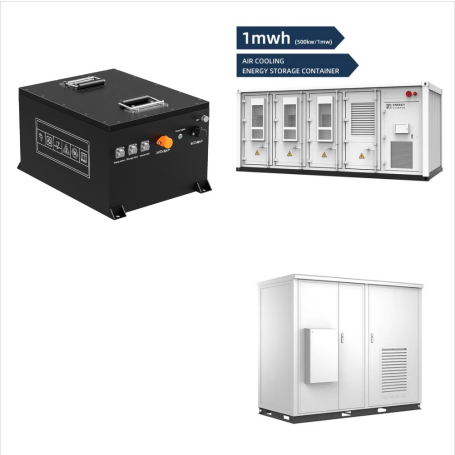


Samsung UL9540A Lithium-ion Battery Energy Storage System The Samsung SDI 128S and 136S energy storage systems for data center application are the first lithium-ion battery cabinets to fulfill the rack-level safety standards of the UL9540A test for Energy Storage Systems (ESS), which was developed by UL, a global safety certification company.

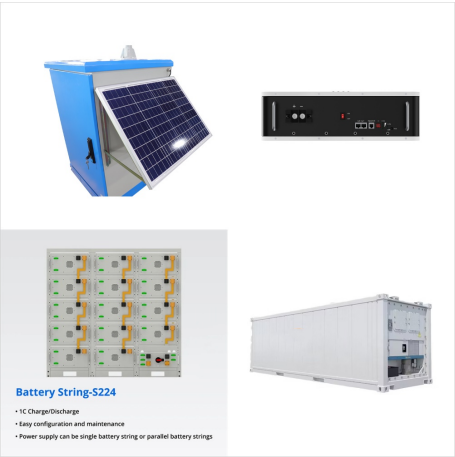
SAMSUNG SDI LITHIUM ION MICROGRID ENERGY STORAGE SYSTEM



Samsung SDI Energy Storage System 11 Bene???ts of Lithium-ion Batteries Why Samsung SDI Product Lineup Item Model Cell Capacity Energy Operation Voltage Dimension (W x D x H) Weight Module U6-M020 67 2.0 24~33.6 216 x 414 x 163 17 Rack U6-M035 67 35 408~572 650 x 600 x 2,055 550 Only Samsung SDI can provide a 10 minute backup battery solution ?



2. COMPANYINTRODUCTION A global leader in the manufacturing of lithium ion (li-ion) batteries for mobile and IT devices, Samsung SDI is leveraging its experience to tackle electric vehicle and grid scale energy storage. As the number one lithium ion battery manufacturer for mobile devices, Samsung SDI earned a revenue of $5 billion in 2012.



The broad operating temperature of Samsung SDI Li-ion battery technology helps reduce operating costs by curbing the use of air conditioning in battery rooms. Furthermore, lithium-ion batteries offer significant advantages in weight and energy density over lead-acid batteries, so the investment costs for space to install and maintain the