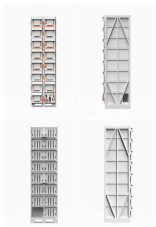
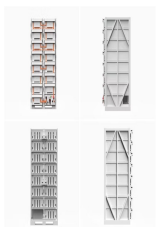


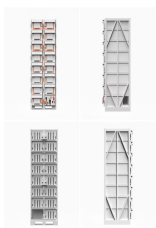
# MURATA ENERGY STORAGE BATTERY SYSTEM



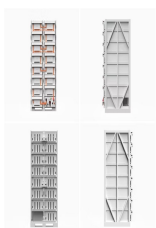
What are Murata batteries used for? Murata's batteries are utilized in a wide range of fields, like storage battery systems for household use and industrial use, as well as small electronic devices, smart phones, power tools, etc.



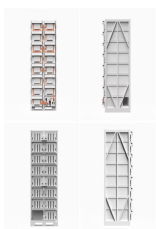
What are Murata's energy storage modules? Murata's energy storage modules are built from Olivine Type Lithium Iron Phosphate Lithium Ion Secondary Battery (FORTELION), which are known for their longevity, safety, and fast-charging capabilities. Multiple energy storage modules are connected either in series or parallel by using BMU, BMU-HUB.



What are Murata batteries made of? Murata's energy storage modules are built from olivine-type LMP batteries. Saft : Veteran French battery maker Saft makes LMO batteries and what it calls "Super Lithium Iron Phosphate cells" which it says have a superior performance compared to standard products.



What are Murata's advances in solid-state batteries? Murata's advancements in solid-state batteries have only just begun. The energy density of lithium-ion secondary batteries when they first came into the market in 1991 was only about one-third of the energy density of today's batteries.



Does Murata sell lithium-ion batteries? Murata does not directly sell individual lithium-ion batteries to general consumers nor does it sell such products to retailers or online shopping sites which directly sell individual lithium-ion batteries to general consumers.

# MURATA ENERGY STORAGE BATTERY SYSTEM



Are Murata batteries identical to Sony batteries? Since Sony withdrew from the battery market, Murata introduced its own line of Murata branded batteries to replace Sony. The Murata line-up for SR, LR and CR button and coin cells encompasses the same complete product lines as Sony.



A 2.1 kWh storage battery module encloses lithium-ion secondary batteries. Features, product line-up (color, capacity, voltage, operating temperature, size) and specifications of controllers, cable connectors, and brackets of Murata's 2.1 kWh storage battery module are shown below.



Murata's lithium-ion secondary batteries are classified into three types: cylindrical, laminated, and small lithium primary battery. The cylindrical type, on which we are particularly focusing, has a?



Murata's lithium-ion storage battery systems feature high safety, rapid storage performance and long life of 10 years more, so that they can be utilized for a variety of both household use and industrial use applications. Murata's a?



The climate change measures of Kanazu Murata Manufacturing include utilizing solar power generation and a storage battery system. The project, which had scaled up to a company-wide scope, accelerated for the purpose of a?

# MURATA ENERGY STORAGE BATTERY SYSTEM



Murata subsidiary Tohoku Murata Manufacturing manufactures battery cells and energy storage battery modules that use this battery. The "UL9540A" test was developed as a new test method for use in international fire protection regulations (2018 IFC: International Fire Code) and the National Fire Protection Association's NFPA 855 technical standard related to a?)



A 2.1 kWh storage battery module encloses lithium-ion secondary batteries. Features, product line-up (color, capacity, voltage, operating temperature, size) and specifications of controllers, a?)



Furthermore, installing cells in that empty space will also make it possible to increase the battery capacity. Nevertheless, the risk of failure increases due to instability in the signal transmission line environment a?)



A high-input, high-output energy storage module capable of 200A continuous discharge (6C equivalent) and 100A continuous charge (3C equivalent), it is ideal for applications requiring high input and high output, such as countermeasures to deal with momentary voltage drops during natural disasters, backup systems, and stabilization of renewable energy sources.

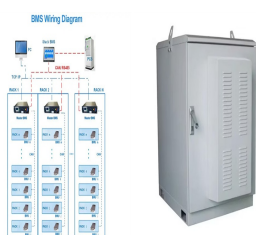


Furthermore, installing cells in that empty space will also make it possible to increase the battery capacity. Nevertheless, the risk of failure increases due to instability in the signal transmission line environment compared to a wired connection. A movement is already emerging to apply wBMSs to EVs and large energy storage systems (ESSs).

# MURATA ENERGY STORAGE BATTERY SYSTEM



Murata's lithium-ion storage battery systems feature high safety, rapid storage performance and long life of 10 years more, so that they can be utilized for a variety of both household use and industrial use applications. Murata's energy storage modules are built from Olivine Type Lithium Iron Phosphate Lithium Ion Secondary Battery



The newly installed storage batteries and Murata's unique storage battery control technology will enable more flexible energy-saving control, which is expected to improve the CO2 reduction effect. With this System, Murata aims to achieve an energy-saving rate of approximately 20% at its head office in fiscal 2022. The System, managed by



In the next 15 years, we need to do 1,000 times all the energy storage system deployments that we've done to date. It's a huge undertaking. It will be about 9,000 GWh of energy storage. There's a tremendous need to get localized energy resources out there. The market is just beginning to wake up to the value of energy storage for the grid.



Kanazu Murata Manufacturing Co., Ltd. (located in Awara, Fukui Prefecture; hereinafter "Kanazu Murata Manufacturing"), a manufacturing affiliate of Murata Manufacturing Co., Ltd. (hereinafter "Murata Manufacturing"), has installed the largest storage battery system at the Hokuriku region (hereinafter "the system") plant to enable 100 percent renewable energy a?



Energy Storage(Battery) Deployment in US a??Storage deployments are increasing in US to stabilize grid condition after PV installation expands. a??It is expected to have the same trend in Japan. -> Storage(Battery) will be required in India in near future.

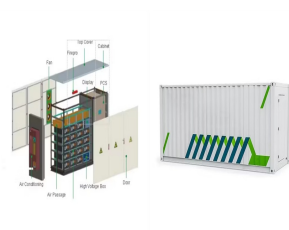
# MURATA ENERGY STORAGE BATTERY SYSTEM



We will introduce a storage battery system equipped with the olivine-type lithium secondary battery "FORTELION", which is the main product of Murata's Energy Systems Group. MENU. my Murata. Contact Information; Contact Form; Company. Investor Relations. Careers. Global - English. Americas - English



A 1.2 kWh storage battery module encloses lithium-ion secondary batteries. Features, product line-up (color, capacity, voltage, operating temperature, size) and specifications of controllers, cable connectors, and brackets of Murata's 1.2 kWh storage battery module are shown below.



Murata's lithium-ion storage battery systems can be utilized for various applications including solar power generation systems or peak shaving for industrial use. Examples of configurations of Murata's lithium-ion storage battery module systems are shown below. System Configuration: Energy Storage Module + Controller: Energy Storage