

Sony develops 1.2kWh-class energy storage module

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Sony today announced the development of an energy storage module using lithium-ion rechargeable batteries made with olivine-type lithium iron phosphate as the cathode material. Key features of olivine-type lithium iron phosphate cell include high power output, long-life performance and excellent thermal stability. Sample shipments of the new module are scheduled to begin from June, 2010.

The newly-developed module is an energy storage module with 1.2kWh-class capacity. Multiple modules can be connected either in series or in parallel to easily expand to a higher voltage or capacity. Furthermore, the new module is compatible with stationary power supplies such as UPS (uninterruptible power supply) for data servers or as a backup power supply for mobile phone wireless base stations.

In recent years, there has been an increasing demand for lithium-ion [rechargeable batteries](#), which boast superior energy efficiency, higher [power density](#) and excellent storage characteristics, as substitutes for batteries made from lead or nickel-cadmium. Until now, lead-acid and nickel-cadmium batteries have conventionally been used in the stationary [power supply](#) market for data server UPSs (uninterruptible power supplies) or as backup power supplies for mobile phone wireless base stations.

Additionally, new applications of lithium-ion rechargeable batteries - such as energy storage systems for efficient energy use and load-leveling - continue to be developed as the installation of new energy generating systems like household photovoltaic systems progresses as part of environmental measures to reduce CO₂ emissions.

This energy storage module will be on display at the China International Battery Fair 2010 (held from June 24 to 26, 2010) in Shenzhen.

Source: Sony

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