

Samsung sdi ireland

Based on widely proven, high safety Samsung SDI UPS battery modules this system features 34.6kWh / 67 Ah cabinets that may be connected together for additional autonomy. These provide a battery solution that is more compact, lighter and more temperature resilient than VRLA systems with faster discharge and recharge capabilities, making it suitable for critical applications in data centres, defence, healthcare, transportation and manufacturing.

The Samsung SDI lithium-ion battery system is specifically approved for use with KOHLER Uninterruptible Power's PW 6000 (60-120 kVA), PW 9250DPA, PW 9500DPA and MF series UPS systems. Samsung SDI is one of the most experienced producers of lithium-ion batteries in the world and has a long record of safely supplying systems for use in critical power systems.

Switchgear collects all information about each battery cell and controls all battery module management systems calculating state of charge (SoC) and state of health (SoH). It also contains a moulded case circuit breaker and a shunt resistor.

SMPS supplies the power for BMS and communicates with UPS and other racks in parallel. It is available in two versions with or without BMS for single or multiple parallel configuration.

Each battery module contains eight series-connected 67 Ah, 3.8 V cells and a dedicated battery module management system (BMS), which measures major parameters, controls cell balancing and interacts with the switchgear.

Cell construction is such that a safety function layer prevents the possibility of an electrical short between the anode and cathode and a multilayer separator prevents overcharging by blocking the passage of lithium ions. In terms of secondary safety a safety vent allows gas venting in case of internal overpressure, a safety fuse is present in case of short circuit and an overcharge safety device will interrupt the current in case of overcharge.

At the module level the battery management system controls voltage, temperature and charge balancing whilst indicating status with LED indicators. A non-flammable (UL94 grade V0) plastic casing is used to mechanically protect each module from external force whilst an insulating cover protects the power cable connections, themselves current rated to 470A for safety.

When two materials (usually dissimilar metals) are immersed in a solution (electrolyte) they conduct electricity between the "plates" which gives rise to an electrical potential. The value of the potential (or voltage) depends on the plate materials and the electrolyte used. Examples of different battery composition include lead-acid, nickel cadmium (Ni-Cad), and lithium-ion.



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From initial contact through installation, service, maintenance to disposal, KUP provides its customers with an unrivalled single source for complete power protection. Call: +353 (0)1 4606859 or Email: Alternatively fill out the enquiry form and our sales team will get in touch with you: Enquiry Form

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