Powin bess

Powin bess

We deliver a fully integrated AC solution by collaborating with best-in-class inverter suppliers, offering our customers the flexibility to choose their preferred technology partner. This approach ensures seamless coordination and integration between our advanced batteries and the electrical grid, providing a tailored and efficient energy storage system.

The Powin Pod’s advanced Fire Suppression System (FSS) proactively mitigates fire and thermal runaway risks within the battery pack, protecting your investment and minimizing downtime. In the event of a thermal incident at the cell level, the system swiftly deploys aerosol to contain the issue and prevent it from spreading to adjacent packs.

Our liquid cooling system ensures stable internal temperatures within the battery pack, significantly improving safety and extending the system’s lifespan. By utilizing parallel flow channels, our design optimizes thermal performance, allowing each cell to cool more efficiently and evenly.

This approach reduces flow resistance by 85% and minimizes temperature differences by 2.78?C, resulting in uniform cooling and degradation, which in turn prolongs cell life and increases available energy compared to traditional series flow designs.

Each Powin battery pack is comprised of 104 battery cells, utilizing upgraded cell capacity and cell-to-pack technology. This optimized design maximizes energy density, leading to significant land savings for projects while ensuring efficient and reliable energy storage.

Each Pod Battery Pack contains 104 cells, with the Powin Pod comprising 4 Battery Packs per String and 12 Strings per Pod, delivering a robust and scalable energy storage solution.

The Powin Pod, our first liquid-cooled BESS, represents a significant leap in performance. Its advanced coolant distribution system is meticulously designed for efficiency, reliability, and ease of service. Each module undergoes rigorous leak detection tests during assembly, ensuring any potential issues are resolved long before reaching your site.

Powin Pod features complete detection devices in every segment, ensuring maximum protection. Cell-Level Monitoring tracks voltage and temperature on each cell, allowing for early detection of potential failures and proactive removal of a stack before issues arise. Emergency Sensing provides 24/7 monitoring of critical detectors. The Integrated Fire Control Panel (FCP) connects smoke and heat detectors to a central system, which is linked to a broader site-level emergency response network for comprehensive safety management.

Powin has debuted a modular battery storage container platform that enables the system integrator"s

utility-scale projects to add 50% more capacity for the same footprint.

The new platform, Powin Pod, was launched today at the Cleanpower 2024 industry event in Minneapolis, hosted by the American Clean Power Association (ACP) trade group.

It brings the US system integrator and manufacturer"s offering in line with recently launched products from rivals in the market in packing 5MWh into the standard footprint. Chinese manufacturers CATL and BYD have now even come to market with 6MWh+ containers.

Powin Pod is designed for use with Centipede, the company"s modular battery energy storage system (BESS) platform, which was launched in 2021. Centipede allows developers to add multiple BESS units side-by-side to create large, multiple megawatt-hour or even multiple gigawatt-hour capacities.