



Stacked ESS High Voltage

What is a high-voltage ESS?

Most high-voltage ESS consist of multiple battery modules (BMUs) to manage and scale a system for site-specific requirements. Within a BMU, MPS's battery monitoring and protection devices can be used as a comprehensive analog front-end (AFE) to accurately measure up to 16 series Li-ion battery cells.

What is a high voltage BMS?

Nuvation Energy's High-Voltage BMS provides cell- and stack-level control for battery stacks up to 1500 V DC. One Stack Switchgear unit manages each stack and connects it to the DC bus of the energy storage system.

How does the nuvation energy high voltage BMS work?

From kWh to MWh, the Nuvation Energy High-Voltage BMS manages up to 1500 V DC per battery stack and up to 16 stacks in parallel with the addition of a Multi Stack Controller. Connects and disconnects a battery stack to the DC bus of the ESS in response to requests from system controllers.

What is stack switchgear (SSG)?

Battery Management System designer Alex Ramji provides a walk-through of Nuvation Energy's Stack Switchgear (SSG), a stack-level battery management system that is generally located above or below each stack in a large-scale high-voltage (i.e. 60-1250 V DC) energy storage system.

How does a stack switchgear work?

One Stack Switchgear unit manages each stack and connects it to the DC bus of the energy storage system. Cell Interface modules in each stack connect directly to battery cells to measure cell voltages and temperatures and provide cell balancing.

What is a G5 high voltage BMS?

The G5 High-Voltage BMS is the newest addition to the Nuvation Energy BMS family. Designed for lithium-based chemistries (1.6 V - 4.3 V cells), it supports battery stacks up to 1500 V and is available in 200, 300, and 350 A variants.

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