A-Core Container

Bahamas Battery BMS Enterprise

Overview

What is a battery management system (BMS)?

The product range includes battery management systems (BMS), power converters, energy storage systems, and grid stabilization solutions. These offerings provide efficient management of plug-in hybrid and electric vehicle batteries, seamless integration of solar systems, enhanced grid stability, and precise energy storage applications.

Are nuvation Energy Battery Management Systems UL certified?

Nuvation Energy provides configurable battery management systems that are UL 1973 Recognized for Functional Safety. Designed for battery stacks that will be certified to UL 1973 and energy storage systems being certified to UL 9540, this industrial-grade BMS is used by energy storage system providers worldwide.

What are the functions of a BMS system?

Additional functions of our BMS system include voltage monitoring of individual cells, temperature monitoring, pack current measurement, state of charge (SOC) calculation, alarm interlocks to prevent over-charging and over-discharging, over and under-temperature controls, over-current protection, and cell balancing.

Which BMS systems are available for communication & data integration?

For communication and data integration, CANbus and/or MODbus is available. Our Gen 2 and Gen 3 BMS systems add WiFi connectivity, smartphone apps, as well as remote data access through a cloud database. The Gen 2 BMS system is certified as UL Recognized component per the UL 2580 standard.

What is the nuvation energy BMS?

The Nuvation Energy BMS records high-current occurrences of contactor opening and decrements the remaining life at each occurrence, based on

contactor safety testing performed at UL laboratories for Nuvation Energy. The BMS will warn users as the contactors approach their end of life.

What is a BMS communication interface?

Communication Interface: The BMS needs to communicate with other Electronic Control Units (ECUs) in the vehicle, such as the Vehicle Control Unit (VCU) and the Charging Control Unit (CCU), to exchange information and coordinate the functions of different systems. The communication interface is used to establish this communication.

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Contact Us

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