



**SolarTech Power Solutions**

# **Panama New Energy BMS Battery**



## Overview

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Harnessing abundant solar resources, an eco-resort located off the coast of Panama has chosen advanced lead batteries, paired with a battery management system (BMS), to power their island microgrid. Who provides battery management solutions for Islas Secas?

Nuvation Energy provided battery management solutions for Islas Secas, a 100% solar powered resort off the coast of Panama. We developed a custom energy storage solution controller, as well as a battery management system to expand their battery storage capacity.

What is a Nuvation Energy battery management system?

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. Nuvation Energy battery management systems are high-reliability electrical controls that have been continuously improved upon for over a decade.

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.

How does a battery management system work?

**Dynamic Current Limits:** The battery management system provides the PCS with the maximum current threshold of the battery. The Nuvation Energy BMS will reduce these thresholds during charging and discharging to prevent over-temperature, over-charging, and over-discharging.

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 G5 high voltage battery management system?

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. Nuvation Energy's battery management systems are highly configurable via a user-friendly Operator Interface.

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### Contact Us

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