

SolarTech Power Solutions

Lithium battery BMS customization



Overview

How do I design a custom BMS for Li-ion batteries?

Designing a custom BMS for Li-ion batteries requires careful consideration of safety, performance, cost, and regulatory requirements. Success depends on thorough understanding of battery chemistry, robust circuit design, comprehensive testing, and adherence to industry best practices.

How do I create a custom battery management system?

Our process for creating custom battery management systems begins by developing BMS modules and custom BMS boards that manage your project's voltage, current, temperature, and data communication with total accuracy.

Does a lithium-ion battery management system cut it?

Lithium-ion applications come with pretty unique electrical demands. That's why a one-size-fits-all battery management system simply won't cut it. Voltaplex offers tailored BMS design services that align with your product's power requirements, space constraints, and industry-specific compliance needs.

Should you use a battery management system?

When you need a BMS design that you can count on – no matter how demanding the application – Voltaplex's battery management system ought to be your go-to choice. Lithium-ion applications come with pretty unique electrical demands. That's why a one-size-fits-all battery management system simply won't cut it.

Why should you choose a BMS module & custom BMS board?

Our BMS modules and custom BMS boards are backed by deep technical expertise and hands-on collaboration to ensure ultimate quality and a commitment to safety. Each system includes embedded protocols that adhere to ISO 26262 and UL standards.

What chemistries require specific BMS designs?

Different battery chemistries require specific BMS designs. Li-ion cells demand precise voltage control, with fully charged cells reaching 4.2V and requiring immediate charge termination at this threshold.

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