

## SolarTech Power Solutions

# Battery Cabinet Thermal Management System Company



## Overview

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What is a battery thermal management system?

Alkraft's range of Battery Thermal Management Systems are designed to ensure that EV batteries are maintained within their optimal operating temperature range, irrespective of the ambient environment. The temperature of lithium-ion batteries is a crucial factor in maximizing battery performance, enhancing safety, and extending its usable life.

How important is battery temperature management?

As applications become more powerful and more prevalent, managing battery temperature is no longer a design afterthought, it's a critical system-level priority. Thermal management plays a key role in ensuring battery safety, performance, lifespan and charging efficiency. But how do we choose the right cooling strategy?

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Is air cooling a viable solution for a battery system?

Despite its drawbacks, air cooling remains a viable solution when simplicity, low cost and ease of integration outweigh the need for high thermal precision. Liquid cooling is one of the most widely adopted thermal management strategies for modern battery systems due to its excellent balance of performance and practicality.

What is a battery energy storage system?

Battery energy storage systems (BESS) ensure a steady supply of lower-cost power for commercial and residential needs, decrease our collective dependency on fossil fuels, and reduce carbon emissions for a cleaner environment.

What is a BTMS heat transfer system?

They are fully integrated plug-and-play systems that connect to the vehicle master control unit through a CAN 2.0 interface. The system includes a range of heat transfer components apart from the BTMS control unit, sensors and actuators, and wiring and hoses.

Why should you choose a thermal management solution?

Now, as the pace of change is accelerating faster than it ever has, we are once again at the forefront, enabling and driving change with cutting-edge Thermal Management Solutions for electric, diesel and alternative fuel applications across a wide range of industrial segments.

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### Contact Us

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