SolarTech Power Solutions

Energy storage lead-acid battery lithium battery mixed use

Overview

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“It can be done, but it wouldn’t be as simple as just adding lead-acid batteries to the lithium battery system. The two systems would essentially be operating independently,” Wehmeyer said.

Because of the inherent differences in their energy densities and voltage profiles, mixing lithium and lead-acid batteries can lead to poor system performance. The lithium battery might remain at a higher state of charge, while the lead-acid battery could be stressed due to excessive discharge.

Using 2 x Bmv712 I can see the discharge between the AGM and LifePo4 accurately. Both batteries are 100% SOC. When a discharge load of 80a was applied, 62ah came from the LifePo4 and the remainder from the AGM. This was also replicated during a charge of 80ah.

No, you should not parallel a lead acid battery with a lithium battery. While it might seem like a cost-effective and practical solution, mixing these two types of batteries can lead to serious performance issues and safety concerns.

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