

## Fogstar lithium battery review

Our venture into the world of off-grid power began in November 2021 with the addition of EVE LiFePO4 Prismatic cells to our lithium battery range. The introduction of these cells marked a turning point for Fogstar, and paved the way for our Fogstar Drift and Energy ranges.

However, whilst LiFePO4 cells are great for those with an active interest in electronics, for those who don't have the knowledge (or time) to connect and manage prismatic cells, a simpler solution was required.

We knew straight away that we wanted to use Grade A EVE LiFePO4 cells as part of the build. The Fogstar team has tested and used these cells in a variety of scenarios - we love them, and so do our customers.

As a team, we also selected the JBD Battery Management System (BMS) to accompany the Grade A EVE LiFePO4 cells. We've spent many hours in the unit testing and analysing options for potential BMS. For us, JBD was always the clear choice for our leisure batteries.

JBD BMS have a superb reputation for quality and longevity - they work beautifully with the EVE LiFePO4 cells and have some great protection functions. The popular US brand "Overkill BMS" are simply a rebranded version of the JBD BMS and have been given the thumbs-up by popular r Will Prowse - if that isn't a mark of industry acceptance, we don't know what is.

When it came to selecting a BMS we required one that could be programmed to interface perfectly to work with our Fogstar Drift App. The JBD fit this objective perfectly, combined with the reliability, brand reputation and enhanced protection functions - it was a no brainer. It also allows for (up to four) Drift batteries to be connected in parallel, or series, thanks to some fancy reprogramming during the manufacturing process.

You can safely discharge a LiFePO4 battery down to -20°C degrees with no issues, and the JBD BMS is set to allow this. The Drift heating pads are only activated when the battery is being charged, and are only powered by the incoming charge current, not the battery itself.

For those of us in the UK and Europe, we're almost certain to see freezing temperatures in the winter which, for many months of the year, can put the kibosh on your battery usage pretty quickly.

However, with the Fogstar Drift range, you can continue to use your battery throughout the cold weather because all of our LiFePO4 leisure batteries contain heating as standard. This is something unheard of without paying a premium!

All of our Leisure batteries come with Bluetooth - which means you'll be able to hook them up to our Fogstar Drift App. That's right - there's also an App. Again, this is completely FREE for all Fogstar Drift customers.

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Our App is not an "out of the box" version as you'll find from many UK battery retailers. We've carefully chosen the core parameters, settings and visual aesthetics of our App - and built it to our customers specifications.

The Fogstar Drift app contains both a digital and numerical dashboard display, allowing you to see real-time voltage, current, power, internal resistance and other parameter values. You can also compare data from each cell, including voltage and temperature difference.

Contact us for free full report

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