For Immediate Release

Battle Born Batteries Releases White Paper Study

Sparks, Nevada (October 14, 2020)- Battle Born Batteries has released its White Paper study outlining the performance details of its 100Ah 12-volt lithium iron phosphate batteries and how they discharge in varying cold temperatures.

Battle Born Batteries conducted this study at various temperatures and shows that Battle Born LiFePO4 batteries outperform lead acid AGMs batteries at **every** temperature.

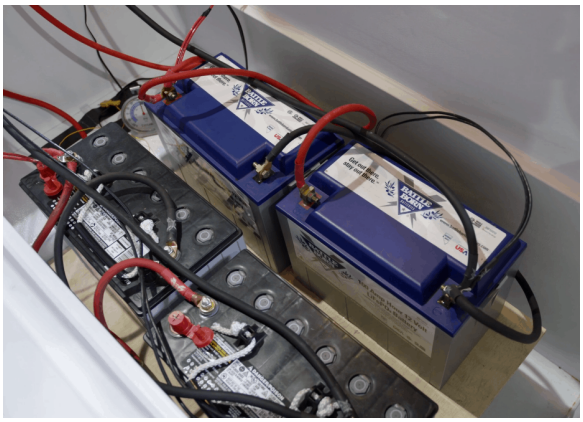
For the room temperature results on both a 30A and 80A draw, the LiFePO4 batteries surpassed the AGM bank consistently. At a 30A draw, the LiFePO4 batteries delivered 207Ah out of 200Ah, where the AGM delivered 63Ah out of 210Ah available. The AGM battery bank was only able to deliver 30% of the advertised 210Ah useable power compared to the LiFePO4 which delivered over 100%.

At an 80A draw, the LiFePO4 batteries delivered 191Ah out of 200Ah, where AGM delivered 11.3Ah out of 210Ah available. That means the LiFePO4 bank delivered 95% more power at an 80A draw than the AGM bank.

“The point of this study is to demonstrate that even though our lithium iron phosphate batteries have a low temperature cutoff, you cannot extract or put in current into a similarly sized lead acid or AGM system at cold temperatures,” the white paper states.

Testing occurred at four different temperature ranges:

- 67-72 degrees Fahrenheit
- 33-37 degrees Fahrenheit
- 26-30 degrees Fahrenheit
- 13-18 degrees Fahrenheit



The bulk of the study highlights the four temperatures at 30 and 80 amp draws.

For each series of tests, the batteries were fully charged at room temperature and then cooled to the target temperature range.

For the 13-18 degrees Fahrenheit results the difference is even more drastic. The LiFePO4 bank was able to deliver 166Ah out of 200Ah available at a 30A draw. The AGM bank was only able to deliver 32Ah out of 210Ah available, allowing you to use only 15% of the battery bank. Versus the 83% available power in the LiFePO4 bank.

For more information on this study visit our blog: https://battlebornbatteries.com/lead-is-dead-white-paper-study/

For the full white paper click here: https://battlebornbatteries.com/wp-content/uploads/2020/10/Lead-is-Dead-Cold-Charging-LFP-vs-Lead-Acid.pdf.

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