Enjoybot lifepo4 review

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After just a few trips with the new battery setup, we knew that 110Ah was simply not enough, and adding more AGM batteries was not an option due to the location of the batteries and how they impact the trailer’s tongue weight. The batteries were mounted near the trailer’s tongue: any weight added there would transfer to the vehicle. After many hours of research, the solution we chose to make the switch to as the latest and greatest in battery technology: Lithium Iron Phosphate (LiFePO4 / LFP). We picked the EnjoyBot 300Ah 12V LiFePO4 (12V-300Ah-PLUS / 971-HE-12V-300AH) battery.

Weight-To-Power Calculation:

As previously mentioned, we are using the EnjoyBot 300Ah 12V battery to power our 16-foot travel trailer that holds a large 12v refrigerator, lights, fans, water pump, and anything that may need power — except for the air conditioner that requires AC shore power. The EnjoyBot 300Ah can comfortably power all of those for about eight (8) days without any form of charging.

Check it out!Devos LightRanger is one of our favorite, full-coverage lights for camping, boondocking/overlanding, sports, and grilling with its built-in battery and 9′ telescoping pole.

Here is what we liked and disliked about the EnjoyBot 300Ah 12V LiFePO4 battery.

In addition to increasing the amount of available power capacity, the EnjoyBot has NOT negatively impacted our overall tow weight. Furthermore, it “enjoys” (pardon the pun) many advantages over AGM and other battery technologies.

LiFePO4 batteries have a high charge lifecycle of 5,000 after which they keep about 80% of their original capacity.

The drawbacks and shortcomings of the EnjoyBot 300Ah are not entirely specific to this particular product, but LiFePO4 in general.

This battery has a built-in, high-temperature charge protection, but does not have a low-temperature safety shutoff. EnjoyBot has released a model with both temperature shutoffs built in.

Most people think that Lithium-Ion batteries cost many times more than a traditional, lead-acid, deep cycle marine, or AGM battery. That is absolutely not the case.

For comparison, the two AGM batteries I had previously purchased cost $275 each (about $5 per usable Amp hour of power: $275 / (110Ah x 50%)). The EnjoyBot LiFePO4 costs $4.24 per usable amp hour ($1,079.99 /

(300Ah x 85%), making it 15% cheaper than the AGM. Considering the other added values such as weight, charge efficiency, life span, and voltage stability, lithium is the clear winner for overall value.

The EnjoyBot 300Ah battery has a standard, charging current of 60A and a maximum, continuous charge current of 100A @ 14.2V – 14.6v. Because of the high charging current, we purchased the larger EnjoyBot 14.6V-20A LiFePO4 Charger (Amazon / EnjoyBot). It has a no-frills design but offers some notable features.

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