Rv lifepo4 battery charger reviews

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This video reviews the 80 amp Li Time charger for 12V Lithium (LIFePO4) type batteries. I’ve done several charger reviews in the past, but this one has a much higher amperage output. Now that lithium battery prices have dropped, many RVers are installing larger amp-hour capacities. Something like this may be an ideal upgrade.

I went through its charging specs/features and physical build inside and out and demonstrated it charging my 300-amp-hour battery. The video finished with a test of whether my 2000W gas generator can power it. Stay tuned; I’ll return with a long-term review update after a few months of usage.

Fair Disclosure I received this Li Time review sample free of charge. However, I received no monetary compensation and have full editorial control of the content.

If you like the website content, be sure to sign up for my *free* monthly newsletter. In it, I share a little more personal information about our journey as RV full-timers, links to the latest Love Your RV! posts/videos, and some other helpful bits and pieces.

Many RVers have turned to lithium batteries" advanced technology to support their power needs for many reasons. They have many benefits when compared with traditional deep-cycle lead-acid batteries. They weigh less, provide more power, have a longer lifespan, are maintenance-free, and are more environmentally friendly. You"ll also get a faster charge than with lead-acid batteries.

Like the lead-acid charging system, a lithium battery charger is a voltage-limiting device that aids in batteries" safe charging. But the similarities pretty much stop there.

The two battery types have different chemistry for creating energy, so they need corresponding chargers to meet those chemistry needs. Lithium battery chargers can safely charge lithium batteries at a much higher voltage (translation: faster charging!). At the same time, they give the chemical interactions within a longer lifespan (translation: fewer replacement batteries).

Can you? Absolutely. Should you? That"s a question that deserves a more detailed answer.

If you used a regular charger, the lithium battery would charge. However, it would charge far more slowly. Lead-acid chargers use a lower voltage by design. If they didn"t limit voltage significantly, batteries would overheat, leading to fire or even an explosion! But there"s more.

When considering lead-acid vs. lithium chargers, identify the voltage range of the two batteries. A resting lead-acid battery will reach full charge at 12.6V-12.8V. A resting lithium battery will not be fully charged

until it reaches 13.3V-13.4V.

Because lead-acid chargers must use a lower voltage to charge batteries, they can only fill around 80% of a lithium battery, which is not good for the battery (nor for the RVer needing power!). It stresses lithium chemistry and reduces the battery"s lifespan.

So, not only will you need many more hours of charging time with a regular lead-acid charger, but you"ll also be damaging your lithium batteries in the process. These issues challenge two of the best benefits of lithium batteries!

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