



Charge house battery from solar and alternator

Can You charge a lithium battery from an alternator?

One problem you can run into charging them from an alternator is because they have so much less internal resistance than lead acid they can take a huge charge that would ruin a lead acid battery. That also means they can cook your alternator. If you go lithium and want to charge from an alternator I'd suggest a dc-to-dc charger. Greetings!

How do I size a solar charge controller?

To size our solar controller simply look at max power in watts and battery voltage(as low as 12 volts to be conservative). In the case of the tundra 200watts in solar panels is all we could fit on the roof. $200\text{watts}/12\text{ volts} = 16.67\text{ amps}$,so a 20 amp MPPT solar charge controller will be perfect. However this leaves no room for future expansion.

Can I run alternator and alternator simultaneously?

It should be fine to run them simultaneously. Be sure to use a good quality solar charge controller, and also be sure that your alternator doesn't supply more than about 14.8 volts to the battery when the engine is running - that could cook the battery. First, congrats on 2 years!

What is a good solar charge controller?

Solar Charge Controller - MPPT 20 amp from HQST again. Good for up to 260 watts of solar panels. Solar Charge Controller Display - This was a free add on to the charge controller at one point so might as well. (check the "promotion" section above the item description, amazon hack) It shows a plethora of info about the solar state of charge.

Are battery chargers better than lead-acid?

They are superior to lead-acid in every way. One problem you can run into charging them from an alternator is because they have so much less internal resistance than lead acid they can take a huge charge that would ruin a lead acid battery. That also means they can cook your alternator.

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I have a house battery bank with (4) 12v 100ah LifePo4 wired parallel. Everything was working great with the Orion-TR 12/12 30 Non-Isolated DC to DC Charger wired into the Lynx Distributor.

The recommended and safest method to protect the alternator and to ensure both batteries are not compromised is to install a battery to battery charger between the starter ...

Now, how can the starting battery be kept charged when the RV or van is sitting unused for some time, or to prevent accidentally discharging the battery?The solution is a 12V to 12V DC-DC ...

The WindyNation DC1230 is an intelligent DC-DC charge controller capable of charging the house battery from both a starter battery that is connected to the vehicle alternator and by solar panels connected directly to the controller.

5 · Supercharge your RV power! Learn to combine alternator and solar charging for a reliable 12V system that never leaves you in the dark. Get maximum off-grid freedom.

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Lots of stuff in progress, but I've finally completed the alternator charging circuit. Almost all of my materials came from the AM Solar 230A Alternator Charger Kit (Drop in Lithium).

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Ultimately, I'd like to setup an isolated/charger and a house battery for everything on those circuits. But I've hit my budget on electronics for now. Running the wire really isn't too difficult. The existing firewall wire ...

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DIY post on a simple dual battery and solar system for your overland rig on a budget. Including layout, components, calculations, and tools.

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from both a starter battery that is connected to the vehicle alternator and by solar ...

To charge a service battery in a car with an alternator and a solar panel, potentially both providing power at the same time (solar panel on the roof while driving), the ...



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