

# Charge battery from alternator and solar





## Overview

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I want to charge a service battery in the car with the alternator and a solar panel, potentially both providing power at the same time (solar panel on the roof while driving). Obviously, the starter and service battery should be disconnected when the engine is not running to avoid the starter.

I want to be able to charge the solar batteries with the vehicle alternator when driving. Will a power smart isolator between the vehicle battery and the solar batteries do the job without hurting any of the other components?

can you include a diagram!! I've thought about doing this in one of my.

PROBLEM: I am not electrically minded, so I am struggling with what I need to charge the battery (we will be buying a bigger 230ah battery within a couple of weeks) using both solar and the alternator. As you can see the alternator is connected, but I need help with what to buy to connect the solar.

A solar battery, also known as a deep-cycle battery or solar storage battery, is specifically designed to store and discharge electrical energy efficiently. Unlike a car battery that provides a sudden burst of power to start the engine, solar batteries are engineered for long-term, deep cycling.

If you connect two different battery chargers to one battery (parallel connection) you run the risk that one will have a slightly lower voltage than the other one and that it will draw a large current from the other one, possibly damaging both. Can you connect solar panel and battery charger?

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Renogy DC to DC charger with MPPT prioritizes solar energy when both inputs are active, reducing fuel costs. Ideal for RV, marine, and car dual-battery. Can a service battery be charged with a solar panel?

I want to charge a service battery in the car with the alternator and a solar panel, potentially both providing power at the same time (solar panel on the roof while driving). Obviously, the starter and service battery should be disconnected when the engine is not running to avoid the starter battery from running flat.

Can You charge solar light batteries with a battery charger?

Yes, you can charge solar light batteries with a battery charger. Actually, you can charge any rechargeable battery with an alternate source. Solar batteries are just rechargeable batteries like others. What happens when I have multiple charge sources charging a single battery bank?

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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!.

Will a battery charger work with a Smart alternator?

They are cheap and simple and do what they say. Yes they might not work with a smart alternator. Yes they might work in a limited fashion with modern batteries (but they will still work to a degree). I use one in an old vehicle with a lithium battery, works fine for my use, which is emergency top up in winter.

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!.



How does a multi-stage battery charger work?

This multi-stage, multi-input battery charger can charge a service battery from a starting battery linked to an alternator or by utilizing solar panels connected directly to the unit. While your vehicle's alternator prioritizes your starting battery, this unit will allow your solar system to charge your service battery first!



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### [Alternator and solar charging a service battery](#)

I've seen that it is common practice in RV, van, and boat systems that installers will use both an Orion DCDC charger to charge from the alternator and MPPT solar charger.

### **charge solar batteries with vehicle alternator while driving**

I have a 2x100w, MPPT charge controller, 1200/2400w inverter and 2x12v gel batteries that works really good. I want to be able to charge the solar batteries with the vehicle ...



### [Can a Car Alternator Charge a Solar Battery? - ...](#)

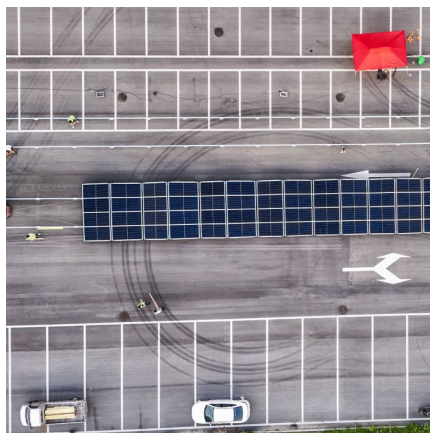
One question that often arises is whether a car alternator can be used to charge a solar battery. In this article, we will explore the feasibility of using a car alternator for this purpose and discuss the key considerations involved.

### [Running solar and alternator charging simultaneously](#)

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### [Battery Bank Charging with both Solar and Alternator](#)

Everything was working great with the Orion-TR 12/12 30 Non-Isolated DC to DC Charger wired into the Lynx Distributor. I added one 200 Watt Solar Panel and ran it into a Victron Energy SmartSolar 100/30 MPPT Solar ...

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### [How To Charge A Battery With An Alternator And 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 ...



### [Solar charging at same time as alternator](#)

As for your original question, charging the lithium battery simultaneously from the alternator plus solar will be no problem, as long as the respective charger settings are set ...

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### **Renogy 12V 30A DC to DC Charger with MPPT & Multi-Stage Charging**

This multi-stage, multi-input battery charger can charge a service battery from a starting battery linked to an alternator or by utilizing solar panels connected directly to the unit.



### Can I charge a battery from solar and alternator at same time?

You can have multiple sources charging the same battery bank at the same time. Whether it is shore power, an alternator, a generator, solar panels, etc., it doesn't matter.



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### Charging with Alternator vs. Solar

Will charging via the alternator be detrimental to the battery? Vice versa, at least with lithium batteries, if you don't have a proper charger it is the alternator that can be ...





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