

What is a motor alternator?

Motor Alternator - A machine provided on trains, built before the 1990s on London Underground, to supply low voltage auxiliary systems like car lighting, battery charging and control circuits. It consists of a 630 volt DC motor powered off the traction supply, which drives an alternator.

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 can a small car alternator power?

A small car alternator from a Chevrolet Camaro can power a dual-output, high-capacity water pump. Larger alternators converted to motors from buses, trucks, boats, and aircraft may produce significantly more power.

How to run a car alternator as a motor?

You could also find some car starter and work with it... A car alternator uses an uncontrolled rectifier to go from the AC it's generating to DC output, you can't run that in reverse without actively controlled switching. To run it as a motor you'd need a typical brushless DC motor controller to run the stator plus a constant DC to run the rotor.

How do you Power an electric motor with solar power?

1. Use solar to generate about 4 Kw of electric energy via batteries 2. Use the generated 4KW energy to power an electric motor 3. Boost the RPM via a gear system 4. Use the boosted power to drive an alternator 5. Recharge the batteries via solar

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.

I am looking for a way to use solar power to drive a 100KVA generator-Alternator (vs using a diesel engine) order to provide electricity to a small village in Africa. The idea is as ...

The alternator is variable speed. The operating voltage is fixed at 13.5 volts and the current produced varies between 45-110A depending on the alternator speed. I want to ...

This paper presents the dynamical analysis of DC shunt, series and permanent-magnet PM motors fed by photovoltaic PV energy systems at different illuminations. At the full solar ...

A motor of 1/2 horsepower capacity is used to drive a combination of belt and pulley drive which form a gear-train and produces over twice rpm at the shaft of an alternator. The intriguing facts about this system are that higher ...

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My brother wants to build a small solar driven RV, about 300 - 400 Wp with a 150 Ah LiFePO4 (Xenes battery) and also wants to charge it via the alternator.

I would like to add my alternator and an additional battery to this setup. I have been looking at battery isolators but they all just seem like glorified switches, so I'm wondering - can ...

Step 3 - Bolt the Alternator. Bolt the alternator to the deck, and attach a pulley on the output shaft of the gas motor to drive the alternator through a belt. Step 4 - Power it With Green Sources. If you are considering using this ...

I have a sailboat with a 560Ah LFP house bank. I do not have any solar, so all charging is done either by a pair of Victron Ip67 30A chargers for a combined output of 60A or my 108A Ample Power alternator. The Alternator ...

From the yearend review-2018 of ministry of new and renewable energy (MNRE) India attains 4th in wind power generation and 5th in solar power and 5th in renewable power ...

Will a solar controller function correctly with input from an outboard motor alternator? ... 3.5K General Solar Power Topics; 6.7K Solar Beginners Corner; 1K PV Installers Forum - ...

Dual purpose: If you go for a DC-DC charger inbuilt with a solar regulator, it can charge your house battery simultaneously with solar power and the alternator. Optimal charge: ...

Depends on the alternator, depends on the charger, and I'm pretty sure it depends on the engine RPM as well. Most of the chargers are rated for between 20-60 amps, a 20a ...

I am going to start building a test rig, just an AD244 alternator on a Honda 6.5hp motor. Would like to build a double alternator rig using a gas or diesel engine up to 30hp. Solar ...

The aim of our project is to generate free energy using flywheel. A mains motor of two horsepower capacity is used to drive a series of belt and pulley drive which form a gear-train and produces ...

Lets say this is my set up, i have solar 4 panels = 500 watts - 1 Tesla Model S battery and a 2nd dedicated 24 Volt Alternator with a 40 Amp output. Whats the best way to tie ...

You can switch between solar and alternator power by turning the switch to the desired power source. Solar power is generated by the sun, while alternator power is ...

Solar & Alternator Charging Hello Community, I recently boat a sailboat and the electrics are shocking to say the least and am rewiring the whole boat from scratch. We are also adding Solar Panels and I would appreciate it ...

Alternator - Because batteries are DC volts and engine generator systems are AC volts, generator power will be input to the battery during recharging via an AC/DC converter. ...

Hi all, First time poster, long time lurker. I have a campervan solar setup that looks like: 2x100 watt panels -> charge controller -> 155 AH VMAX 12V AGM battery -> fusebox -> ...

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