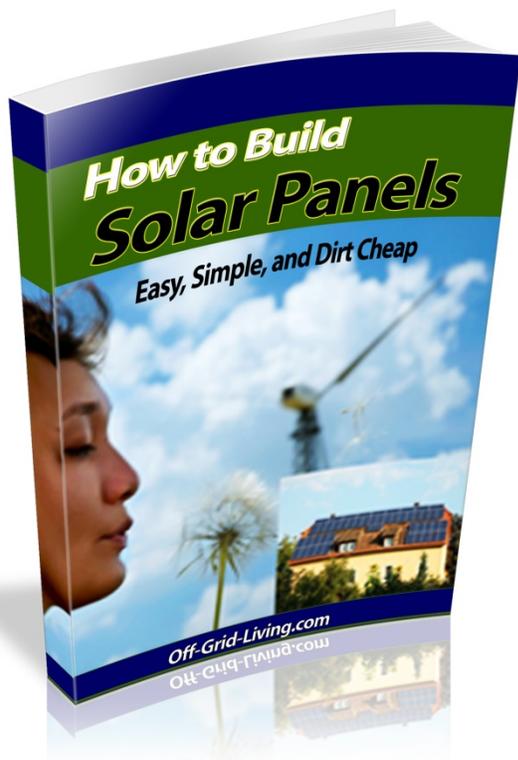


Off-Grid-Living

In An Urban and Suburban World



Lesson #17 ... Hooking Up Your Solar Power System

The Disclaimers, Legal Stuff and Butt-Covering Section:

Before attempting to build a solar system for your entire house, take my course "Home Energy Made Easy" Go here: <http://Off-Grid-Living.com> I'll give it to you for free for being a member of this course. Understanding the concepts in that course will save \$1000's of dollars when you go to build your system.

This is but one small section of a complete action plan for building solar panels dirt cheap. Which is one small section of a course on going off the grid in Urban/Suburban America. You can learn how to

- Grow your own food year around, no matter where you live.
- Slash your energy and living expenses by 50% or more.
- Create your own fuel
- Finding economical shelter
- Alternative methods of (Legally) making money
- How to live anonymously

Check out <http://Off-Grid-Living.com>

NOTICE: You Have the Right Give This To Anyone You Want!

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How To Build Solar Panels

Introduction

This is David Sieg with off-grid-living.com. This is the final lap around the track. I know that this video is supposed to be the shattering climax to all your work so far, but the truth is, it's going to be pretty anti-climactic. Why? Because this is the easiest part of the entire course.

Let's bring back the overview of what has to take place. In a nutshell, your solar panel is going to be hooked into your charge controller.

Your charge controller will be tied to your battery.

And your battery will be wired into your inverter.

You plug your appliances into your inverter.

Seriously, that's all there is to it, and it is dead simple to do. In fact, it will probably take longer to watch this video than it will hook everything up. So let's get started.

First, we need to talk about wire. The volts and amps you plan on producing, as well as the distance between your solar panel and inverter, will determine the size of the wire you should buy. If you're unsure the best thing to do is take a trip down your electrical supply store and consult with them.

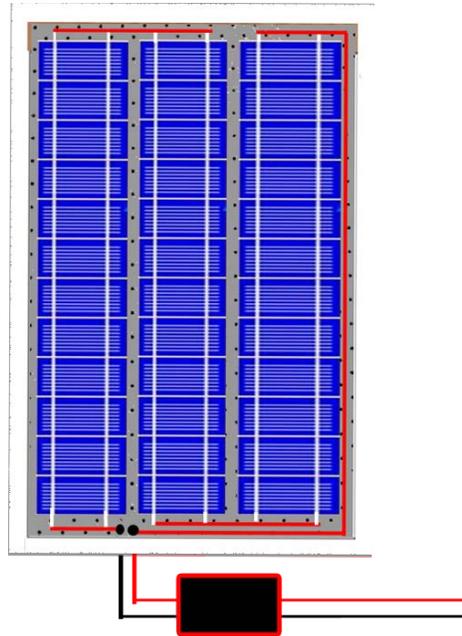
For the purpose of this lesson I'm going to gloss over sizing the wire and go straight to hooking up your solar power system. I'm going to assume you have the wire in hand.

So the tools and materials you'll need are

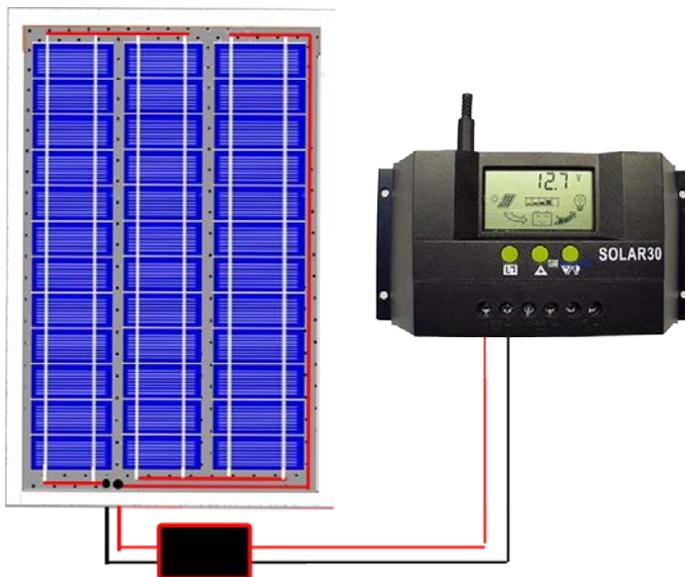
- Wire
- Charge controller
- Deep cycle battery
- Inverter.

So let's get started. We left off with a fully completed solar panel which had been hooked up to a junction box.

How To Build Solar Panels



Take the positive and negative wires from your junction box and then connect them to the solar end of your charge controller. Your charge controller should be labeled which side is solar, and which side is battery.



Next, roll out enough wire the distance between your charge controller and you batteries, and cut the wire. Then hook up the positive wire (Red) from the charge controller battery side, the positive side of your battery. Rinse and repeat for the negative (Black) wire.

How To Build Solar Panels



The only thing left to do is hook your batteries into the inverter. Usually, you'll want your inverter fairly close to your battery.

On the back of the inverter, there is usually 2 leads. One red (Positive) and one black (Negative)



Roll out enough wire to connect the battery to the inverter. Connect the positive wire (Red) to the positive lead on the inverter. Connect the negative wire on the negative terminal.

How To Build Solar Panels



At this point, check the charge controller to make sure you're receiving solar energy. If it is, then hook your appliance into the inverter.



How To Build Solar Panels

Your appliance should be running on solar energy. Well, technically, your solar system should be charging your battery, and you're running your appliance off that charge.

That's it. From start to finish. At this point, having gone through the entire build you'll need to decide how many solar panels you'll need for your requirements, build them, and hook them up.

The very last step is mounting them on your roof which we'll cover in the next lesson.

PS...Don't forget you can get personalized coaching at Off-Grid-Living.com/ For some this is the ideal way to get hands on experience as well as personal attention needed to make this work for you.

Coming Up Next ...

Lesson #18: "Mounting Your Solar Power System on the Roof"

In the next lesson we'll be going into some do's and don'ts of mounting your solar system on your roof.