



# Diy off grid solar setup

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The following 6 steps are required for building a DIY Off-Grid Solar System:

Day by day the price of the solar panel falls gradually. But still, installation of a complete off-grid solar system is costly. So I write this instructable to get all the components of your solar system separately and assemble it all by yourself.

Checkout my updated V2.0 Instructables on Off-Grid Solar System

I have tried my best to guide you step by step from buying different components to wiring everything by yourself.

Only you have to know some basic electrical and math for designing the entire system. Instead of this, I have attached links of my other Instructables to make the charge controller and energy meter.

For an off-grid solar system, you need four basic components

In the next few steps, I will explain in details how you can choose the above components according to your requirement.

Note: In the picture I have shown a big solar panel of 255W @ 24V, two batteries of 12V @ 100Ah each, 30A @ 12/24V PWM solar charge controller and a 1600 VA pure sine wave inverter. But during the calculation, I have taken a smaller solar system example for better understanding.

Before choosing the components you have to calculate what is your load, how much time it will run etc. If anyone knows basic maths then It is very simple to calculate.

1. Decide what appliances (light, fan, tv, etc ) you want to run and how much time (hour).
2. See the specification chart in your appliances for power rating.
3. Calculate the total Watt Hour: Just like a CFL calculate the watt-hour for all the appliances and add them together.

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