Off grid solar bank calculator

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Use our Off-Grid solar calculator tool below to estimate system size. Check out our video on off-grid sizing for details and more information on the design process.

Steps to use the off-grid calculator:

Fill out the table below to estimate energy usage. We"ve included some common household appliances found in off-grid homes. Try to account for everything, keeping in mind that off-grid homes should use efficient appliances, and the major heating loads (water & air heating) are usually not electric.

We"ll estimate your off-grid system size based on the list of appliances and energy usage that you entered. Keep in mind that this is only an estimate, and there are many factors that can influence system sizing. Please contact us for help designing your project.

Wil has been a part of the solar industry for over 20 years; as an electrician, solar installer, support technician, and more. He"s also been living off-grid since 1996. Wil and the rest of the Unbound Solar team are here to answer any questions you have about designing a system that will fit your needs.

**To estimate the number of hours that a refrigerator actually operates at its maximum wattage, divide the total time the refrigerator is plugged in by three. Refrigerators, although turned "on" all the time, actually cycle on and off as needed to maintain interior temperatures.

The Off-Grid Solar Panel System Calculator helps you size the battery bank, watts of solar panels and the solar charge controller you need. The calculator assumes you will need to size your system to get you through average amount of sun-light in the least sunniest month of the year for your location. This calculator assumes and adds for inefficiencies in batteries, panels, and wiring.

Watt Hours per Day: (Amps x 240 volts x hours) You can take monthly kwh from electric bill and divide by 30 for daily wh total

How many days of backup power do you want in case of cloudy/rainy days?

What is the lowest temperature your battery bank will experience?

You need to determine the average number of sun-hours per day during the least sunniest month of the year. This is the "Isolation Value"

Select the State-City Closest to your location (currently only US states are provided)

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Contact us for free full report

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