



# Solar cell 220 kWh

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Let's consider an upgraded Tesla Model S with a battery capacity of 100 kWh. If you used half of its capacity daily, then you'd need a solar array of approximately 14.99 kW, which translates to 13 solar panels to offset the costs entirely. This is assuming 4 solar hours a day, which is the yearly average for the US, and 300 W panels.

Whether you want to help our planet or just save some money, the solar panel calculator might be just the tool you want to use. It's created to help you find the perfect solar panel size for your house depending on how much of your electric bill you'd like to offset.

Undoubtedly, renewable energy has a number of benefits affecting several areas of our lives. Many countries are turning towards hydroelectric power or wind turbines, depending on which best suits their natural environment. Why should you follow the trend? Let's see:

Solar panel dimensions are critical if your roof is small or of an unusual shape. Why? These factors affect the usable area, so whatever you sacrifice in size, you'll need to make up for in efficiency. It may seem confusing, so let's go through the whole decision-making process step by step:

where the electricity consumption is yearly and expressed in kWh (our energy conversion calculator can help if your electric meter uses other units). Solar hours in a day depend strongly on your location.

The tricky part begins now. You need to estimate your roof area (you might find roofing calculator useful). Exclude the bits you cannot place anything on or are normally in the shade since they won't generate any power. This will give you an idea of the maximum solar panel dimensions.

There's no one-size-fits-all solution here, and you'll have to research your local options regarding solar panels. You've calculated your solar panel needs, so it's time to check where you can get photovoltaic cells that are the closest to the ideal.



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