



Materials needed for solar power

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Gather the Materials Needed for Your Photovoltaic Solar Panel

We all know the importance of renewable energy sources like solar energy, right? They help us reduce our carbon footprint and harness the power of the sun to generate electricity. But do you know how this solar energy is produced? It all starts with a combination of different raw materials, each playing a crucial role in creating a solar panel.

In this blog, we will learn about the different raw materials for solar panels, and what is their importance in converting sunlight into electricity.

A solar panel is made of different raw materials like frames, glass, backsheets, and others. Each of the raw materials for solar panels plays an important role in generating electricity.

Here are the eight essential components that make up a solar PV module:

Regarding solar panels, we usually consider the most fundamental raw materials: the solar cells that gather sunlight and convert it into energy. However, there is another important part: its frame. Made of aluminum, these frames really help to protect your solar panels. They cover the panels from moisture, which might be a major problem should it enter. They provide appropriate drainage, therefore avoiding the pooling of water at edges and damage.

Durability: Aluminum frames are durable enough to withstand severe weather, including heavy rains, strong winds, and even hailstorms. Reliably protecting the delicate solar cells and other components inside, the sturdy metal frame won't readily deform, split, or sustain damage.

Corrosion Resistance: Aluminum is perfect for outdoor applications since it does not rust. The metal frames of your solar panels will remain in excellent condition for a long time, regardless of the weather conditions.

Silicon gel is used as a sealant in solar panels. It is great for use outside because it bonds well and is exceptionally resistant to chemicals, water, and bad weather. By gluing and binding the fused glass PV modules, silicon gel makes sure that solar panels are strong and work well. One of its main jobs is to bond the junction box and backsheet together, which also makes the solar panels more resistant to ultraviolet light.

Extreme Weather Durability: The solar panel works well in a wide range of conditions because it can handle high temperatures and UV rays.

UV Protection: Silicon gel makes solar panels more resistant to ultraviolet light, which helps them work better

and last longer.

Tempered glass, especially low iron tempered glass, which is also known as “white glass,” is what solar panels are made of. Solar cells work best with light wavelengths between 320 and 1100 nm. This type of glass is specially made to let the most light through in this range, and it does so with a success rate of over 93%. Also, it does a good job of reflecting IR light above 1200 nm. Since this glass doesn’t let ultraviolet (UV) rays from the sun through, the amount of light that gets through will stay the same.

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Web: <https://kary.com.pl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

