

What is a solar panel





Overview

What are solar panels used for?

Solar panels can be used for a wide variety of applications including remote power systems for cabins, telecommunications equipment, remote sensing, and of course for the production of electricity by residential and commercial solar electric systems. On this page, we will discuss the history, technology, and benefits of solar panels.

What is a solar panel?

A Solar panels (also known as " PV panels") is a device that converts light from the sun, which is composed of particles of energy called "photons", into electricity that can be used to power electrical loads.

How do solar panels work?

Solar panels absorb the photons and in doing so initiate an electric current. The resulting energy generated from photons striking the surface of the solar panel allows electrons to be knocked out of their atomic orbits and released into the electric field generated by the solar cells which then pull these free electrons into a directional current.

Why are solar panels important?

Solar panels are the most important part of a solar power system since they produce the electricity that eventually finds it's way to your laptop, lights and television. In this basic introduction, we look at how this happens. How do solar panels work?

Solar panels convert sunlight into electricity through a process called the photovoltaic effect.



What is a solar panel



[Solar panel , Definition & Facts . Britannica](#)

Nov 28, 2025 · Solar panel, a component of a photovoltaic system that is made out of a series of photovoltaic cells arranged to generate electricity using sunlight. The main component of a ...

What Is a Solar Panel? A Complete Beginner's Guide to How Solar Panels

Aug 7, 2025 · With global demand for renewable energy on the rise, solar panels have emerged as one of the most accessible and scalable solutions for clean electricity generation. But what ...



Solar panel

Oct 27, 2025 · Figure 1. A solar panel, consisting of many photovoltaic cells. [1] A solar panel, or solar module, is one component of a photovoltaic system. They are constructed out of a series ...



What Is Solar Panel?

Jul 22, 2024 · A solar panel, also known as a photovoltaic (PV) panel, is a device that converts sunlight into electricity. The primary function of a solar panel is to capture sunlight and ...



Solar Panels 101: A Basic Guide for Beginners

Solar panels 101 Solar panels are the most important part of a solar power system since they produce the electricity that eventually finds its way to your laptop, lights and television. In this ...



What is a Solar Panel System and How Does It Work?

Sep 11, 2025 · Learn what a solar panel system is, its key parts, and how it works to convert sunlight into clean, reliable electricity for your home or business.



Contact Us

For catalog requests, pricing, or partnerships, please visit:
<https://llsolarenergy.co.za>



Scan QR Code for More Information



<https://llsolarenergy.co.za>