



# Differences in specifications of different photovoltaic panels



## Overview

Monocrystalline panels are manufactured from a single crystal of pure silicon. This manufacturing process results in a very uniform material that is characterised by high energy efficiency. The main features of this type of panels include: 1. High efficiency: Monocrystalline panels. Polycrystalline panels, on the other hand, are made from multiple silicon crystals fused together. This production method is simpler and less expensive than that of monocrystalline panels, which is reflected in the final price. Thin-film panels represent a different technology. Instead of using silicon in crystalline form, they use a thin layer of photovoltaic material deposited on a substrate such as glass, plastic or metal. There are different types. The choice between monocrystalline, polycrystalline and thin film depends on several factors, such as available space, budget and environmental conditions. Below is a comparison that can serve as a guide: Selecting the right type of solar panel involves analyzing several factors: 1. Available space: If space is limited, higher efficiency panels, such as monocrystalline, are ideal because they generate more energy per squaremeter. 2. Climate conditions: In warm climates, panels with better heattolerance, such as monocrystalline, are often more effici.



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