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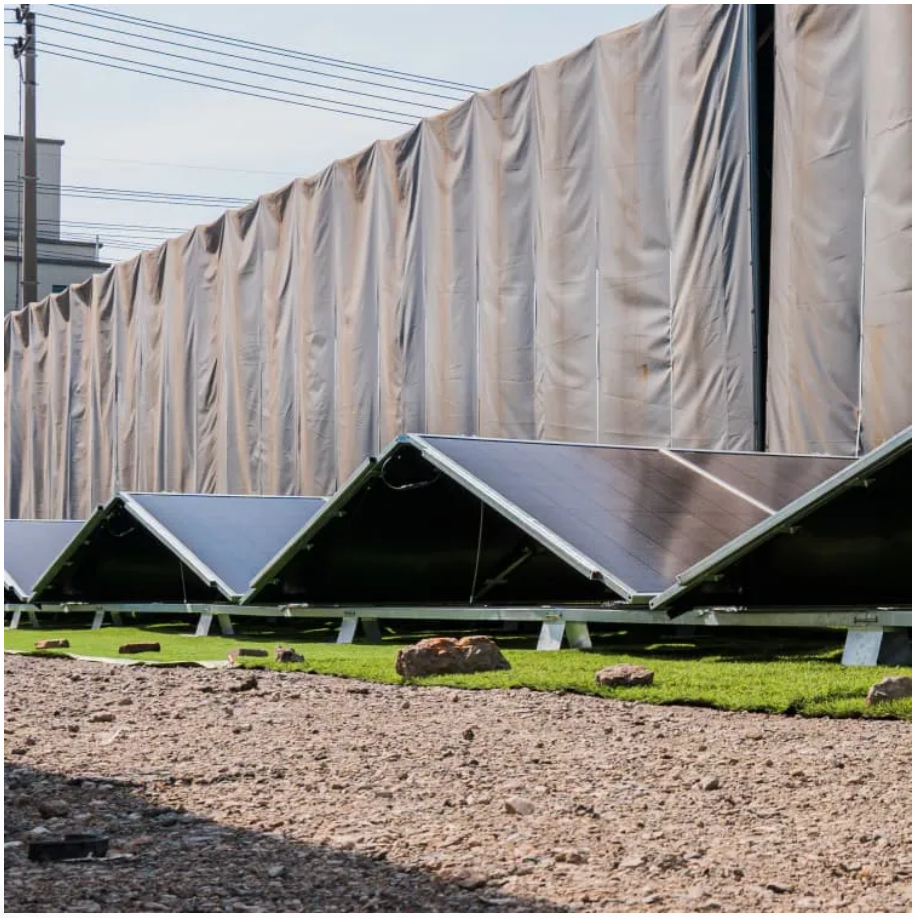
New monocrystalline solar panels have color difference



Overview

What makes monocrystalline solar panels different?

One key distinguishing factor of monocrystalline panels lies in their silicon arrangement. Unlike polycrystalline panels, monocrystalline solar panels are made from a single silicon crystal. This singular crystal structure impacts various aspects of the panel's performance and appearance.

How do you know if a panel is monocrystalline or polycrystalline?

There are several ways to differentiate between monocrystalline (mono) and polycrystalline (poly) panels. The easiest way is to observe their physical appearance. Monocrystalline panels have a uniform black color, while polycrystalline panels are blue with a speckled pattern.

Why are monocrystalline solar panels black?

Manufacturers use high-quality silicon crystals to create monocrystalline solar cells. During the production process, the silicon arranges itself in a single direction to form one large crystal. Because of this, the cells appear black. Two production factors make black monocrystalline panels more expensive than polycrystalline panels.

Why are blue solar panels better than monocrystalline solar panels?

This process creates many separate crystals with a blue appearance. The multiple crystals in the formation process create less silicon waste and require less energy than the monocrystalline process. It makes blue solar panels less expensive, but it also means blue panels are less efficient.

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