A-Core Container

High quality monocrystalline silicon solar modules

Overview

To identify high-quality monocrystalline PV modules, check silicon purity (≤10^{16} atoms/cm^3 oxygen content), EVA crosslinking degree (≥85%), PID resistance (≤5% attenuation in 96h at 85°C/85% humidity), and hot spot tolerance (≤170°C under STC conditions).Why should you choose a monocrystalline solar module?

Trusted by solar project developers, EPCs, installers and contractors worldwide, our monocrystalline solar modules are manufactured using best-in-class raw materials and subject to strict quality control: High Cell-To-Module ratio through precise cell conversion efficiency sorting. Excellent electrical long-term stability and reliability.

What is Longi high-efficiency solar module?

LONGi High-efficiency solar Module, widely adopting PERC solar cells technology, Half-cut Module Technology and Bifacial PV technology,Mono Silicon Crystalline Technology has become a leading manufacturer and brand in the export and installation of monocrystalline silicon solar photovoltaic module.

What is n-type Topcon monocrystalline silicon photovoltaic module?

The most promising N-type TOPCon monocrystalline silicon photovoltaic module is examined through the life cycle environmental impact assessment, and focus is placed on optimizing the production process of industrial silicon, poly-silicon, silicon rod, silicon wafer, photovoltaic cell, and photovoltaic module.

What is a bifacial solar module?

LONGi launched its mono-PERC modules in 2016, featuring integrated PERC technology on monocrystalline silicon and low light degradation, and its cell efficiency has increased from 21% to 24.06%. Bifacial modules collect solar energy from both the front and back side of the module, increasing the total power output per module.

What is the environmental impact of n-type Topcon monocrystalline silicon photovoltaic modules?

This study revealed that the environmental impact of N-type TOPCon monocrystalline silicon photovoltaic modules is lower than other types. The environmental impact mainly relates to freshwater desalination, fossil resource scarcity, and ozone formation.

Which processes reduce environmental impact in the production of polycrystalline silicon?

Production of polycrystalline silicon, PV cell and PV module are key processes. The key sub-processes of environmental impact in six processes were identified. Optimized electricity mix and secondary aluminum substitution significantly reduced impacts.

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