

High-Efficiency Solar Panel Module

This high-efficiency solar panel module integrates large-size silicon wafers with PERC, multi-busbar, half-cell technologies, and high-density encapsulation. Technology integration enables the module to increase efficiency up to 21.1% and reach a maximum power of 540W.



Overview

High-Efficiency Solar Module

The S4 series solar module delivers over 500W of power with 21% efficiency, designed for seamless integration into utility-scale projects. Featuring multi-busbar technology and high-density encapsulation, it minimizes micro-cracking risks and shading impact. Its optimized design ensures compatibility with existing mounting systems while providing robust performance in diverse environmental conditions.

Key Performance Metrics

Key Performance Indicators

500 W

Power Output

21 %

Module Efficiency

5400 Pa

Max Static Load

Technical Specifications

Design Advantages

- Multi-busbar cell technology
- 0.5mm cell spacing
- Compatible with 1p and 2p mounting systems
- Lower temperature coefficient
- High low-irradiance performance

Installation & Reliability

Reliability Benefits

Low hot spot effects • Reduced internal loss • Micro-crack resistance • Improved logistics compatibility

Installation Methods

Rails, Clamps