

Bifacial Half-Cell Solar Module

This high-efficiency module integrates 166mm silicon wafers with bifacial and half-cut cell technologies. The module has a maximum front side power output of 445W and achieves up to 20% efficiency.



Product Overview

High-Efficiency Bifacial Half-Cell Solar Module

This advanced solar module series integrates large silicon wafers with bifacial, multi-busbar, and half-cut cell technologies to maximize energy yield. The dual glass structure ensures superior protection and durability, reducing the impact of micro-cracks and hot spot effects. By capturing both incident light on the front and reflected light on the rear, these modules provide higher overall efficiency and exceptional performance even in low irradiance conditions.

Performance Metrics

Key Performance Indicators

445 W Front Power Output	20 % Module Efficiency	579 W Theoretical Max Power	70 % Bifaciality Rate
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Surface Power Gain

Surface Type	Additional Power Gain
Asphalt Ground	2-7%
Lawn	5-10%
Aluminum Foil	10-30%

Technical Features

Advanced Module Features

- Half-cut cell technology to reduce ribbon resistance
- Dual glass structure for enhanced durability
- Backside power gain up to 30%
- Optimized parallel design to reduce shading impact
- Class A fire resistance

Certifications & Ratings

Class A Fire Rated • Bifacial • High Efficiency