

High-Efficiency Solar Panel Module

This high-efficiency solar panel module integrates 210mm silicon wafers with PERC and multi-busbar cell technology. The module increases efficiency up to 21.6% with power output up to 600W.



Product Overview

Utility S5 Series Solar Module

The Utility S5 series represents a significant advancement in photovoltaic technology, engineered specifically for ultra-large-scale utility projects. Featuring high-efficiency multi-busbar technology and enhanced power output, these modules deliver superior energy yield even under challenging low-irradiance conditions. With a robust design that includes a thicker frame profile, these modules significantly reduce Levelized Cost of Energy (LCOE) while providing reliable long-term performance.

Performance Specifications

Performance Metrics

21.57 %

Peak Efficiency

82 %

System Efficiency

0.4 %

Generation Benefit

Technical Specifications

Module Variants

Cell Count	Max Power	Efficiency	Dimensions (mm)
60 Cells	610W	21.55%	2172*1303*35
66 Cells	670W	21.57%	2384*1303*35

Design Features

12BB Multi-busbar, 0.8mm cell spacing, High Power Junction Box, 37% thicker frame profile

Efficiency & Economic Impact

Economic Impact

- System Efficiency: 82%
- Generation Benefit: +0.4%
- Balance of System (BoS) Savings: -4.5%
- Levelized Cost of Energy (LCOE) Reduction: -4.4%

Key Advantages

Low hot spot risk • Reduced shading impact • 20% higher lifetime yield • Excellent low-irradiance performance