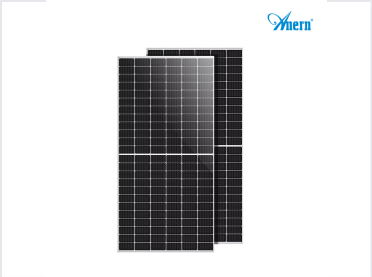
Half-Cut Monocrystalline PERC Solar Panel

Half-cut cell monocrystalline silicon PERC solar panels achieve a photoelectric conversion efficiency of about 19%, with a maximum of 21%. Monocrystalline PERC half-cut solar modules are designed for commercial and solar farm grid-tied applications.



Product Overview

High-Efficiency Half-Cut Monocrystalline PERC Solar Panel

This advanced solar panel utilizes cutting-edge half-cut monocrystalline PERC technology to maximize energy output and reliability. Designed with multiple busbars and high-density encapsulation, it offers superior efficiency and reduced power loss compared to conventional modules. Its unique symmetrical parallel design ensures optimal performance even in shaded conditions, making it an ideal choice for residential, commercial, and utility-scale installations.

Key Technologies

Advanced Features

- Multiple Busbars (MBB) design for uniform load and increased power output
- Lossless cutting technology reduces micro-cracking risks by over 50%
- Half-cut cell design reduces current density and internal power loss
- Round wire solder ribbon minimizes shading area
- Up-down symmetrical parallel module design for shading tolerance
- High-Density Encapsulation technology for improved efficiency

Performance Metrics

Performance Improvements

5 W	50 %	0.15 %
Power Output Increase (MBB)	Micro-cracking Risk Reduction	Module Efficiency Increase

Welding Wire Power Gain	2 W