

ABC Module Series Designed for Specific Scenarios

AIKO possesses profound insights into the unique challenges and requirements of diverse photovoltaic application scenarios.



Residential Scenario

Neostar Series

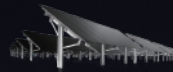
Ultimate Efficiency. Premium Aesthetics. Ultra-Safety.



C & I Scenario

Comet Series & Nebular Series

Powerful Green Energy. Higher Returns. Ultra-Safety.



Utility Scenario

Stellar Series

Higher Power. Lower LCOE. Reliable Performance.

Beyond Efficiency, All-around Excellence

Transcending single-metric efficiency, the ABC module integrates ten unique features to deliver higher power, stable returns, and ultimate safety throughout the product's entire lifecycle.

High Power Output

6%-10% higher power output within the same area

Hail Resistance

TÜV Rheinland 40mm Hail Resistance Certification

Anti-Glare Design

Ribbon Free Front Side + Anti-Glare Glass

Lower Degradation

First year degradation ≤1%, annual degradation ≤0.35%

Superior Temp. Coefficient

-0.26%/°C for stable performance in high temperatures

Micro-crack Resistance

Single-sided Soldering technology and copper interconnect technology

Fire Resistance

World's first TÜV Rheinland "Module-level anti-ignition hazard" certification

Anti-Dust

Frame edge with a small area of A surface with enhanced self-cleaning, minimizing dust accumulation

Mono-Glass Module Reliability

Eliminates damp-heat corrosion paths

Partial Shading Optimization

Minimizes power loss from shading compared to conventional modules

AIKO Invented

All Back Contact (ABC)

Ultimate Technology of the Monocrystalline Silicon Era, Leading the New Generation of Photovoltaic Technology.

In the future, with the BC platform, by integrating photon multiplication and perovskite tandem technologies, the photoelectric conversion efficiency of pv cells is expected to exceed 40% before 2040.

Module Deliverable Efficiency World No. **1***

*AIKO ABC Module Ranking 1st of TaiyangNews Crystalline Silicon Commercial Solar Module Efficiency Since March 2023

Closest to the Theoretical Efficiency Limit of Monocrystalline Silicon

29.4%

ABC Cell Average Mass Production Efficiency

27.3%

ABC Module Deliverable Efficiency

25%



BNEF Tier 1



EUPD TOP BRAND PV 2025 AWARD in United Kingdom, Spain, Italy, Germany, Switzerland



2025 TaiyangNews Highest Efficiency Commercial Solar Modules



PV magazine 2024 Module Award



reddot winner 2023



reddot winner 2024



The 21st, 22nd & 25th China Patent Excellence Awards



Intersolar AWARD 2023, Innovative Solar Technology

The Red Dot Product Design Award 2023

The Red Dot Award: Brands & Communication Design 2024



Website: www.aikosolar.com

Email: marketing@aikosolar.com



Redefine Solar For Carbon-free Society



Corporate Mission

Transforming sunlight into electricity, the photovoltaic industry directly utilize solar energy to power human civilization. A prosperous and sustainable future depends on embracing carbon-free energy, with photovoltaics leading the way.

Photoelectric conversion efficiency is a crucial metric in our transition to a carbon-free era.

As a pioneer in pushing the boundaries of extreme photovoltaic efficiency, AIKO accelerates humanity's progress toward a higher state of civilization, delivering carbon-free energy solutions for the future.

Leading Humanity into the Carbon-Free Era

About AIKO

As a leading global new energy technology company, AIKO has dedicated 17 years to the core photovoltaic field, consistently driving the industry forward with disruptive innovation.

Focused on research and development, and with a refined marketing strategy, AIKO delivers high-efficiency, reliable solar cells, ABC modules, and scenario-based solutions to customers worldwide.

With cumulative shipments of solar cells and modules reaching 190GW, AIKO has become the top choice for high-end customers across various scenarios around the world.

190GW+

Accumulative Shipments

10,000+

Employees Globally

20%

R&D Ratio

20+

Global Branches

3

R&D Centers

6

Production Bases



AIKO: Pioneering the Launch of ABC (All Back Contact) Technology

AIKO redefines the future of photovoltaics through disruptive innovation. Our self-developed Separa Tech BC establishes a robust intellectual property system.

We continuously push the boundaries of cell conversion efficiency and bifaciality rate, pioneering silver-free metallization coating technology.

Leading the photovoltaic industry's transformation and BC commercialization, AIKO stands as a pioneer in efficiency and mass production delivery.

2025

ABC INFINITE Series Began to be Delivered, Module Efficiency: $\geq 25\%$

ABC Module Achieved a Bi-faciality Rate of 80%

Launched the Intelligent Module

2024

Unveiled ABC INFINITE Modules

ABC Module Achieved a Bi-faciality Rate of 75%

2023

Launch of the Stellar Series for Utility-Scale Projects, Completing Full Scenario Coverage

Cell Efficiency: $\geq 27.2\%$

ABC Module Achieved a Bi-faciality Rate of 70%

2021

Zhuhai Base with 10GW Capacity
Cell Efficiency: $\geq 26.5\%$

Invented Silver-free Metallization Technology

2019

The 500MW-Capacity ABC Pilot Line was Put into Operation

Cell Efficiency: 25.2%

2016

AIKO Innovatively Invented the ABC Cell by Separa Tech BC and Established a Complete Intellectual Property Patent System Based on Two-Step BC Cells Preparation Technology