

ABC Module Series Designed for Specific Scenarios

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



Residential Scenario
Ultimate Efficiency. Premium Aesthetics. Ultra-Safety.



C & I Scenario
Powerful Green Energy. Higher Returns. Ultra-Safety.



Utility Scenario
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

Micro-crack Resistance
Single-sided Soldering technology and copper interconnect technology

Hail Resistance
TÜV Rheinland 40mm Hail Resistance Certification

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

Anti-Glare Design
Ribbon Free Front Side + Anti-Glare Glass

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

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

Mono-Glass Module Reliability
Eliminates damp-heat corrosion paths

Superior Temp. Coefficient
-0.26%/°C for stable performance in high temperatures

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
27.4%

ABC Module
Deliverable
Efficiency
25%



BNEF Tier 1



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



2025 TOP
INNOVATION



EUPD
SolarProsumerAward



PVmag-TestLabel



2025 TaiyangNews Highest
Efficiency Commercial
Solar Modules



PVEL 2025
Top Module Manufacturer



The 21st, 22nd &
23rd China Patent
Excellence Awards



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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 200GW, AIKO has become the top choice for high-end customers across various scenarios around the world.

200_{GW+}

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.

2026

AIKO launches the INFINITE ULTRA ABC Gen 4 module.

Cell efficiency increased to 27.4%, module efficiency: 26%

2024

AIKO launched the INFINITE ABC module. Cell efficiency: 27.2%

Propelling the global PV industry into the era of 25% module efficiency.

2022

AIKO launched the ABC Neostar Series Module.

Module efficiency reached 23.6%

2021

AIKO launched ABC technology. Cell efficiency: 26.5%

2019

AIKO completed a 500 MW pilot production line for N-type BC cells.

Cell efficiency: 25.2%

2016

AIKO invented tubular PERC technology. cell efficiency: 22%