

The logo for AIKO, featuring the word "AIKO" in a white, sans-serif font. To the right of the text is a small orange icon consisting of two overlapping squares, one slightly offset from the other.

AIKO

LEADING HUMANITY INTO THE
CARBON-FREE ERA



About AIKO

As a global leader in new energy technology, AIKO has been at the forefront of the photovoltaic industry for 16 years. Through continuous disruptive innovation, we have consistently set new benchmarks for the industry.

AIKO is committed to dedicated research and development, as well as refined marketing strategies. We provide global customers with highly efficient and reliable solar cells, ABC modules, and scenario-based solutions. Our cumulative shipments of cells and modules have reached 170 GW, making us the top choice for high-end customers in various scenarios around the world.

 **170GW+**  **10,000+**

Accumulative Shipments

Employees Globally

 **20%**  **3**  **20+**

R&D Ratio

R&D Centers

Global Branches



reddot winner 2023



Product Technology Innovation

From the P-Type era to the N-Type era, AIKO has consistently led the industry in technological innovation;

Our groundbreaking N-Type ABC technology, mass-produced for the first time globally, has revolutionized the entire value chain from wafers to cells and modules, keep pursuing a record-breaking PV conversion efficiency of 29.56% for mono-crystalline silicon cells.

Zero Carbon Society



▪ In collaboration with Burgenland Electricity, accelerating the achievement of carbon neutrality in Burgenland, Austria

Launched ABC Infinite module, with module efficiency 25%+

2024

N-Type Era

ABC module officially released, with max power output 720W, module efficiency 23.50%

2022

▪ 2023 Invented ABC technology with a bi-faciality rate reached 70%

P-Type Era

Invented and mass-produced 210mm cell
Invented and mass-produced 166mm cell

2019

▪ 2021 ABC cell officially released, cell efficiency 26%+

▪ 2016 Invented tubular PERC technology
Invented bifacial tubular PERC technology

R&D investment

451 mn\$+

R&D investment in recent 3 years



Zhuhai AIKO R&D Center

3

R&D Centers



Yiwu Global Photovoltaic Joint Innovation Center

1000+

Patents



Freiburg Germany AIKO EU Solarlab



Eight partner laboratories worldwide

Manufacturing Engineering Excellence Innovation

Guided by our philosophy of redefining PV module manufacturing, AIKO continues to lead the industry in intelligent manufacturing breakthroughs. Through comprehensive innovation in equipment, processes, and procedures, we are pioneering the zero-carbon smart factory model.

Zero Carbon Society

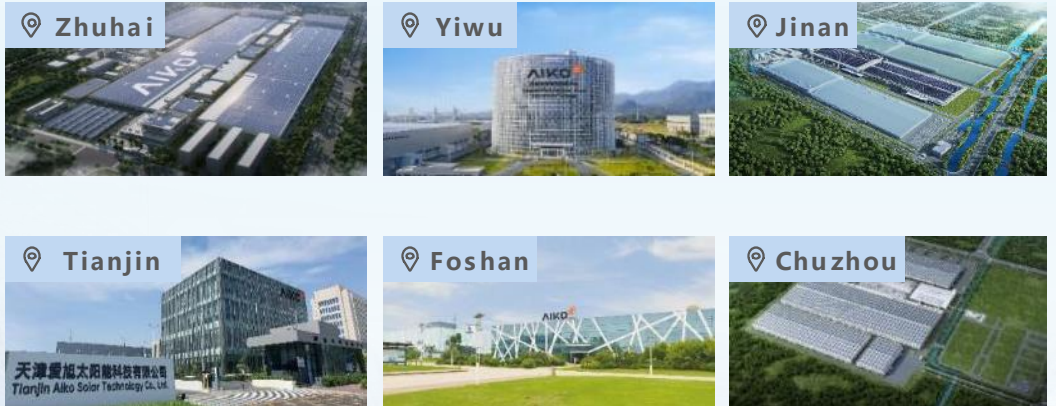


- **2024** Jinan Zero-Carbon Green Factory
100% green electricity | 90% water recovery | 30% waste heat recovery
- **2024** Unveiled ABC INFINITE modules utilizing mass production technologies like hidden bus ribbon, overlap welding, 0BB cells, etc
- **2023** Zhuhai AIKO completed as the world's first smart factory integrated with 10GW cells and modules
- **2022** Zhuhai AIKO mass produced with silver-free metallization technology, utilizing aerial transmission to further enhance production efficiency
- **2017** The world's first 5GW-scale automated PV cell factory
Pioneering photovoltaic flexible production by being the first to connect process machines through AGVs (Automated Guided Vehicles)
Inventing AI-powered automatic quality inspection technology to elevate the quality standards of photovoltaic products

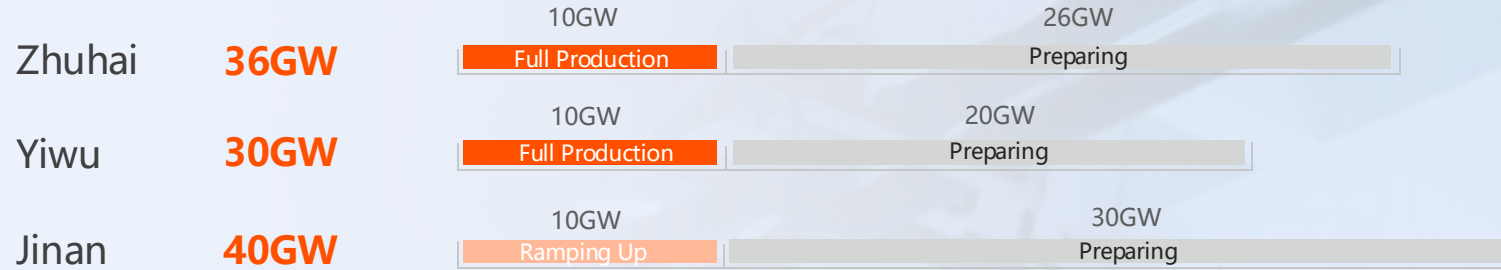
📄 Six major production bases

Total Planned Capacity of ABC

106GW



Prioritizing EU supply, secure order fulfillment

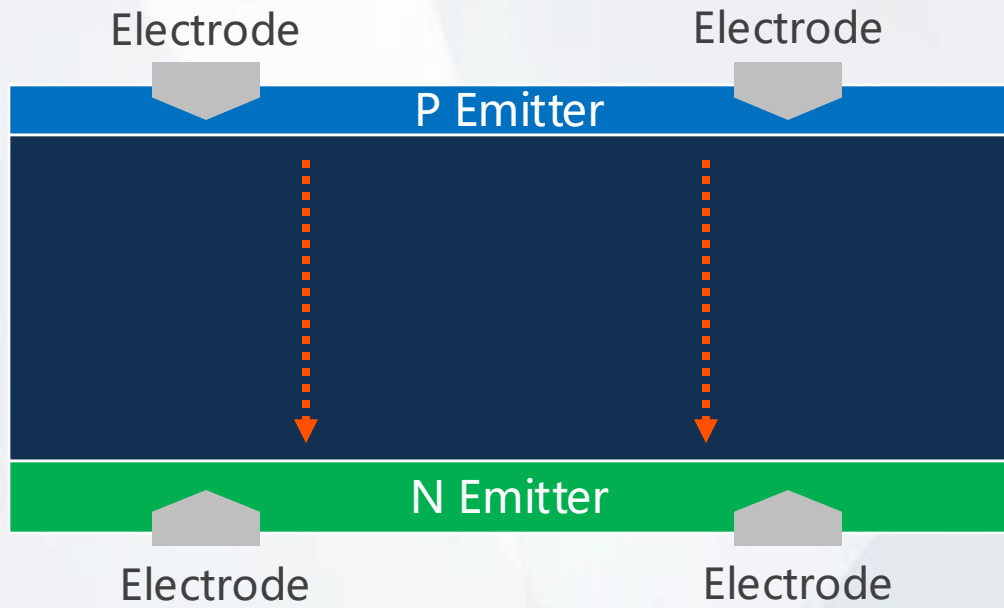


Products	24Q2 Capacity	25Q2 Capacity
54/60 cells	4 lines, 210 MW per month	8 lines, 480 MW per month
72/66 cells	5 lines, 170 MW per month	13 lines, 720 MW per month
78 cells & Others	1 lines, 80 MW per month	>11 lines, > 1350 MW per month

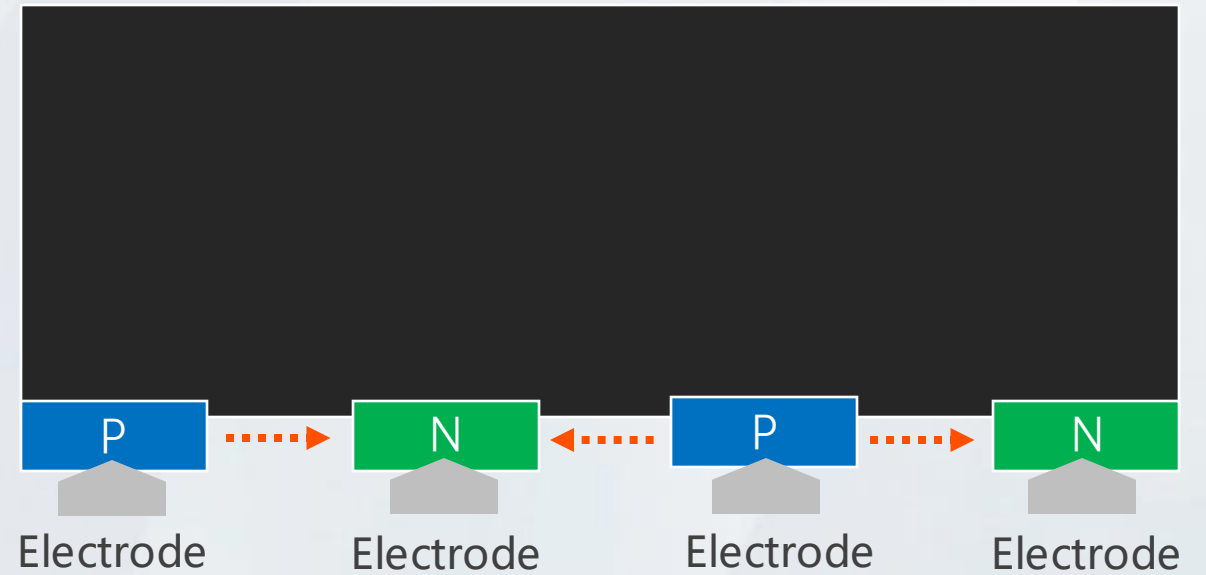
200% capacity growth within one year

What is Back Contact?

Traditional Cell (TOPCon)



AIKO ABC



BC Technology is Must-have to Reach the Efficiency Limit

□ Silicon Wafer

BC is the only cell technology compatible with ultra-high-resistivity wafers required to reach the theoretical efficiency limit of crystalline silicon

☐ Cell

Achieve Full-Surface Light Absorption Without Gridline Loss
Fully passivated contacts, eliminating recombination losses where others over 50%

☀ Module

Infinite Full-Screen Design,
+1.8% Extra Effective Front Production Area
Chip-level circuit design, Unique Partial Shading Optimization, Maximize Module Lifetime Production
Copper Metallization & Single-side soldering,
3 times better resistance to micro-crack



Prof. Martin Green Scientia Professor at the University of New South Wales, Sydney

“With superior current, voltage, and fill factor, Interdigitated Back Contact (IBC) is poised to lead next-generation photovoltaic technologies.”



Dr. Christos Monokroussos Global Segment Coordinator for Solar of TÜV Rhein land Group

“Back Contact (BC) solar cells offer better passivation, low-temperature processing, and improved performance—higher efficiency, lower LID, and greater resistance to shading and hot spots.”

AIKO Leads the Innovation of BC Technology

Made significant contributions to the development of the global photovoltaic industry

Fundamental technological innovation:

1975

Swartz from Purdue University in the United States invented back-contact (BC) cell technology and achieved 17% efficiency using a one-step fabrication process



1985

SunPower was founded and began promoting the industrialization of one-step BC cell technology



2016

AIKO pioneered the ABC Separattech technology and established a comprehensive intellectual property system



Key innovations in AIKO's ABC mass production journey:

Silicon wafer

- Ultra-high-resistivity silicon wafers: > 500 Ωcm
- Low oxygen content: < 10 ppma
- Long minority carrier lifetime: > 10,000 μs

High-purity, ultra-high-resistivity silicon enables BC cell efficiencies > 27%.

Cell

- **Cell Structure:** Full-area light capture | All-silicon | Passivated electrodes | Full back-contact | Toward 29.56% limit
- **Cell Patterning:** Ultrafast lasers (fs/ps/sub-ps) | Semiconductor-grade precision
- **Cell Metallization:** Industrial-scale coating | No silver paste | High crack resistance

Module

- **BC-Exclusive Features:** Hotspot prevention | High-temp suppression | Shading-optimized performance
- **Full-Screen Module Design:** +7.2% active area | Up to 25.2% efficiency
- **OBB Architecture + Laser Interconnection:** Robust | Flexible | Streamlined assembly
- **High Bi-faciality:** 80% ± 5%

AIKO Leads the Innovation of BC Technology

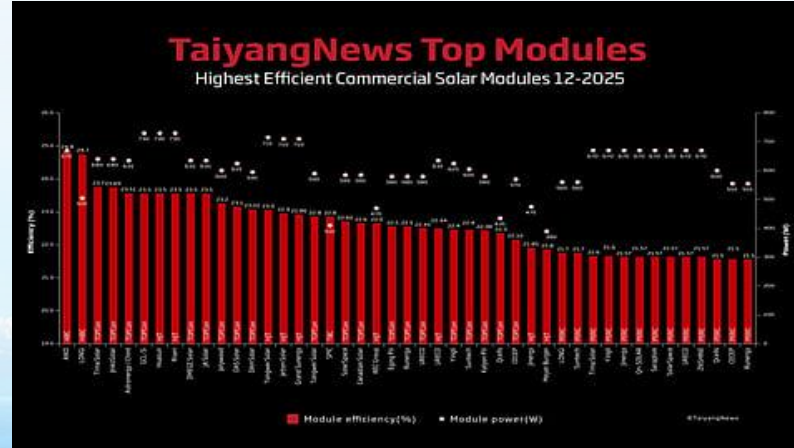
ABC modules rank **No.1** globally in commercial production efficiency

* AIKO has been ranked No.1 in the TaiyangNews commercial module efficiency ranking since March 2023

AIKO also leads in global shipments of n-type BC modules

* By the end of 2025, cumulative global shipments of ABC modules have exceeded 20 GW

The only BC module globally using copper electroplating



CLEAN ENERGY REVIEWS Most Efficient Residential Solar Panels 2025 * V5.4 Nov 2025

Manufacturer	Model	Power Rating	Cell Technology	Efficiency
AIKO	Neostar 3P54	500W	N-Type ABC (Back Contact)	25.0%
LONGi Solar	Hi-MO X10 Explorer	495W	N-Type HPBC 2.0 Hybrid Back Contact	24.3%
moxeon	Maxeon 7	445W	N-Type IBC (Back-contact)	24.1%
SUNTECH	Ultra BC	480W	N-Type BC (Back-contact)	24.0%
WINAICO	WST-485BDX54-B2	485W	N-Type BC (Back-contact)	23.8%
JinKo Solar	Tiger NEO 60HL4-V	515W	N-Type TOPcon	23.8%
JA SOLAR	Deep Blue 4.0 Pro	475W	N-Type TOPcon	23.8%
TW SOLAR	TNC 2.0 G12R-48	475W	N-Type TOPcon	23.8%
RECOM	Black Tiger Series	460W	N-Type TOPcon (Back Contact)	23.6%
SPIC	Andromeda 3.0	460W	N-Type TBC (Back Contact)	23.6%
ASTRONERGY	Astro N7s Series	515W	N-Type TOPcon	23.2%
YINDE SOLAR	Panda 3.0 Mini 2.0	460W	N-Type TOPcon	23.0%
HUASUN	Himalaya G12R	450W	N-Type HJT	23.0%
Trinasolar	Vertex 5+	465W	N-Type TOPcon	23.0%
CanadianSolar	TOPHIKu6	470W	N-Type TOPcon	23.0%
risen	n-Type Topcon	455W	N-Type TOPcon	22.8%
DASOLAR	DAS-DH96NE	455W	N-Type TOPcon	22.8%
ASTRONERGY	Astro N5s	445W	N-Type TOPcon	22.8%
REC Solar	Alpha Pure RX	470W	N-Type HJT	22.6%
PHONO	Helios	440W	N-Type HJT	22.5%

* Residential panels - 54, 60, 66 cells (108, 120, 132HC), or 96 & 104 full cell. Does not include commercial panels >2m



EUPD 2025
Top PV Brand



the United Kingdom



Spain



Italy



Germany



Switzerland

EUPD 2025
TOP INNOVATION



2024 redden
Brand and Communication
Design Award



reddot winner 2024

2023 redden
product design



reddot winner 2023

PV Magazine
AWARD 2024 MODULES



2023-2025 TaiyangNews
Highest Efficiency Commercial Solar
Modules



Key Values of ABC Module

Provide customers with
high-value products with high power, high income and ultra-safety



High Power

- 6%-10% Higher Power Output



High Technology

- **InvisiRibbon**
- **ZeroGap**
- Partial Shading Optimization



High Aesthetics

- Gridline Free
- Pure Black Desing

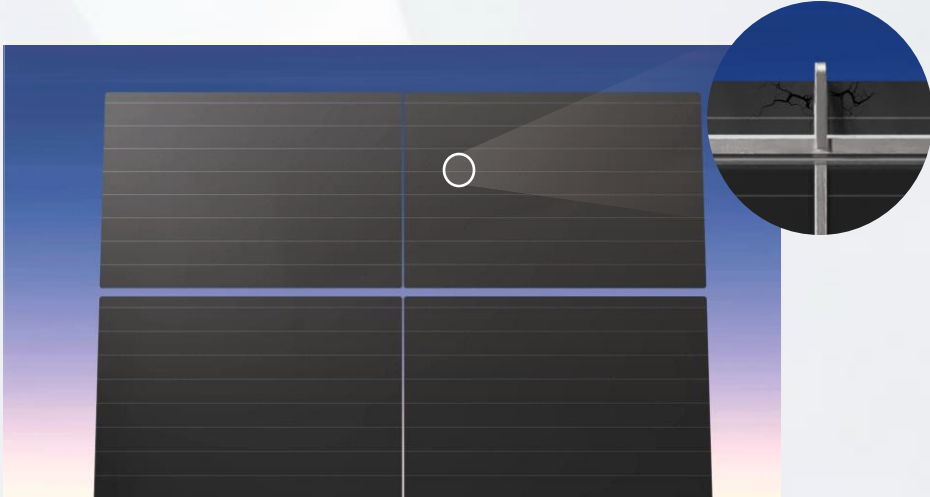


High Reliability

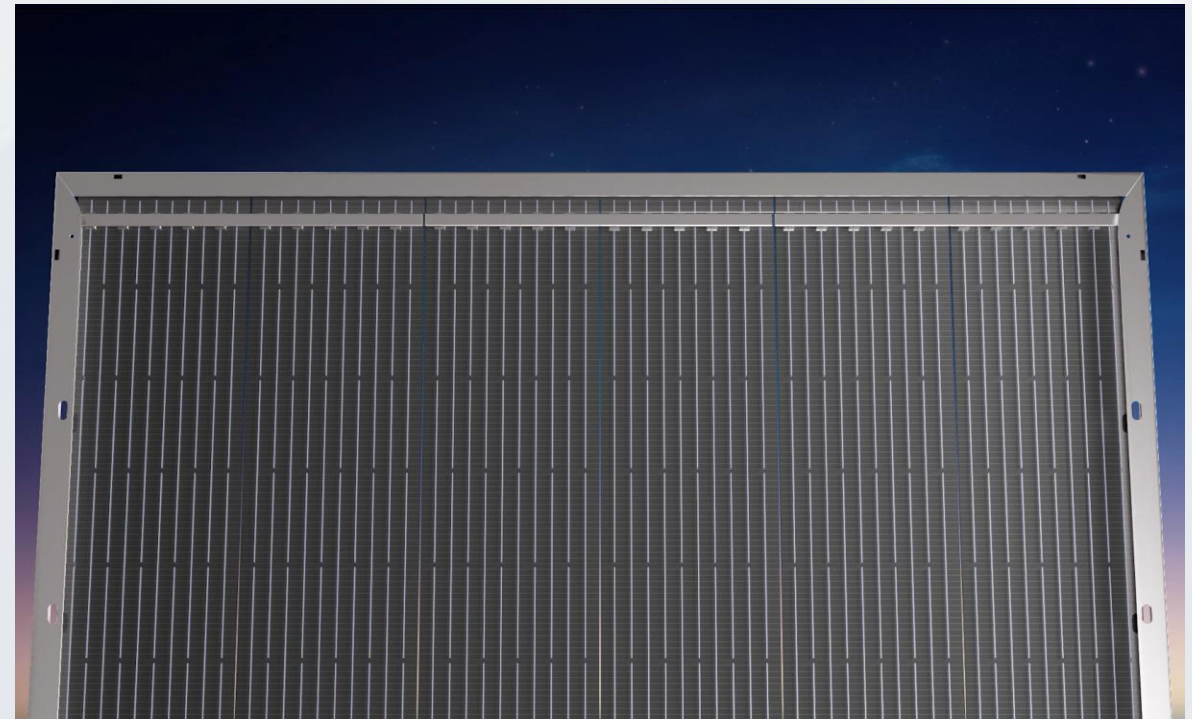
- High Temp Restriction
- Micro-crack Resistance
- Better Hail Performance
- IEC Fire Class A
- ABC Copper Interconnection

High Technology – InvisiRibbon +1.4% Effective Production Area

Challenge of Traditional Technology



Relocating Bus Ribbon to the Backside of Module +1.4% Front Production Area

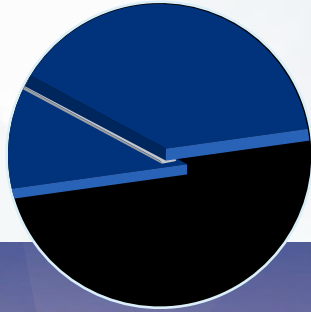


1. Fold the ribbon
2. Microcracks on cell edge
3. 3mm+ extra extended ribbon is required

High Technology – ZeroGap +0.4% Effective Production Area

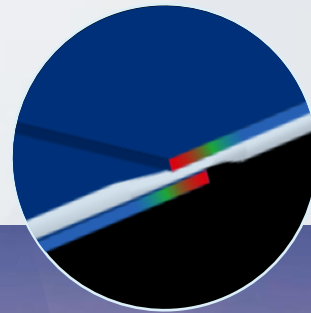
Traditional Shingled Technology

Uncertainty of the Electrically Conductive Adhesives (ECAs) long-term reliability



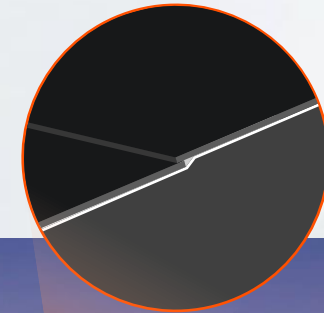
Traditional Zigzag Overlap Soldering

Z-shape overlap Soldering, prone to stress-induced micro-cracks



ABC ZeroGap Technology

Single-line backside overlap soldering
Stress-free by design



High Technology – Partial Shading Optimization



When a single cell is fully shaded,
ABC can produce extra

30%

electricity than Traditional Modules

Shading Condition	Traditional Module	Aiko
1-100%	58.91	89.86
2-100%	58.91	89.86

TUV南德 局部阴影遮挡报告

High Aesthetics – Benchmark of Solar Elegance

More aesthetically pleasing: By using ABC cell, front-side is not blocked by grid-lines, and through the precision overlay soldering technology, eliminating the cell spacing, the visual experience of customers is improved, and the quality requirements of the high-end market are met.



Advantages	Item	ABC 54 INFINITE	TOPCon
Purity in Appearance	Front fingers	no	yes
	Front busbars	no	yes
	cell Spacing	no	yes
Perfection in Quality	Cell Process	The differences in texturing and coating processes of ABC cells enhance the aesthetic advantages of the cells.	
	Front-side ribbon	no	yes

High Reliability – Superior temperature coefficient & lower degradation

Better Temperature Coefficient

-0.26%/°C VS -0.29%/°C

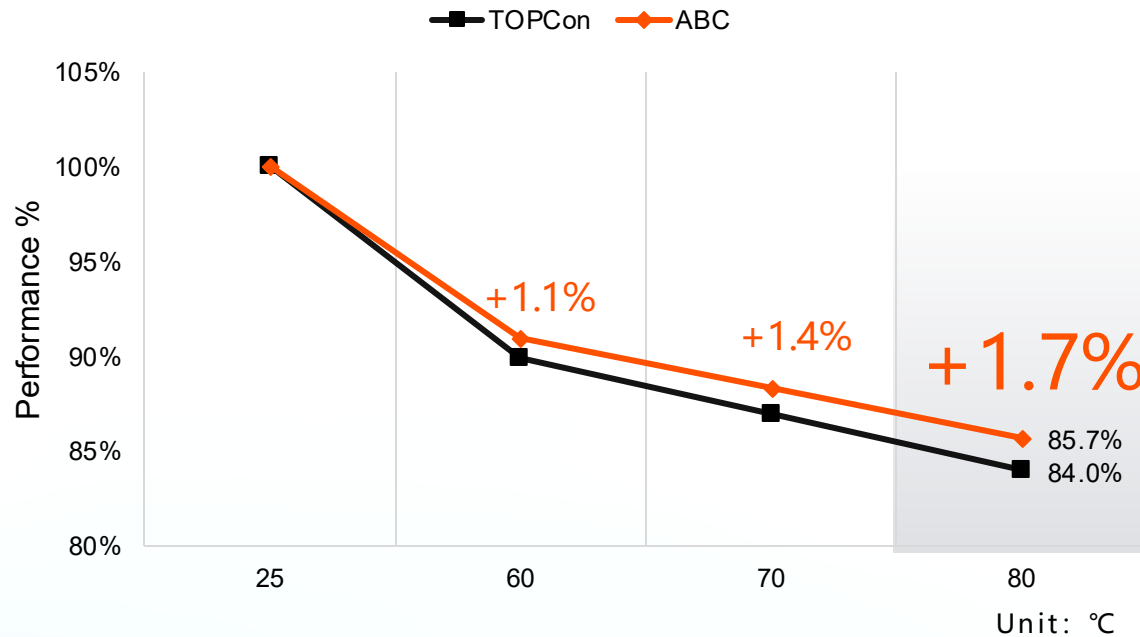
Lower Degradation

1% / 0.35% VS 1% / 0.4%

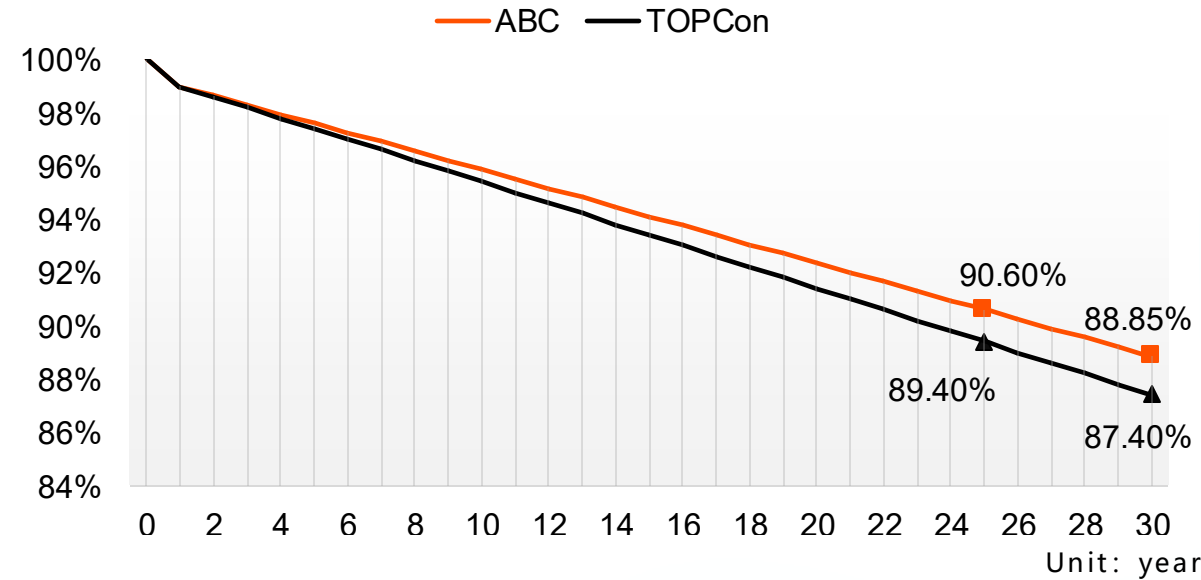
First Year/Year by Year

First Year/Year by Year

Power Gain Under Different Temperature



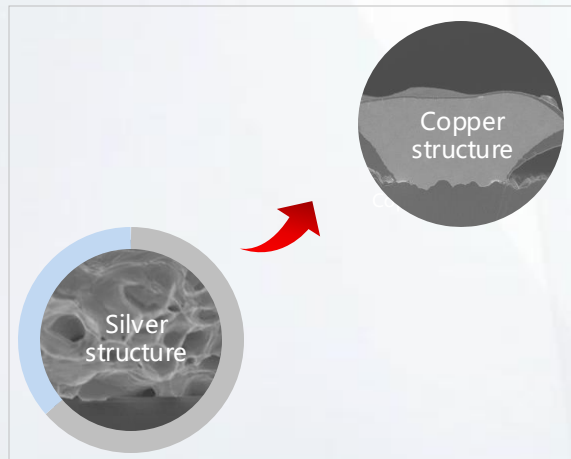
Linear Power Output over 30-years Life-cycle



High Reliability – ABC Copper Interconnection

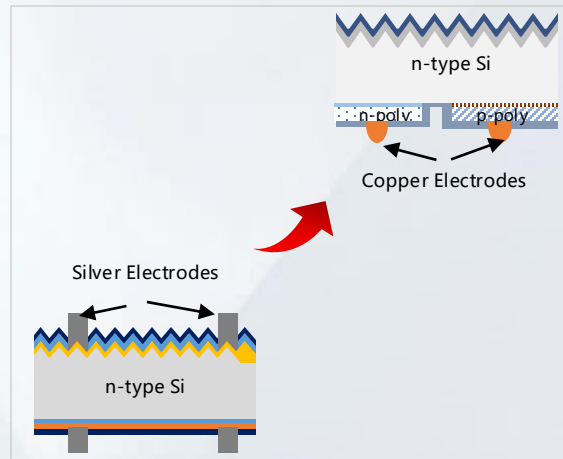
Upgraded Material

Dense and ductile copper layer has stronger impact resistance



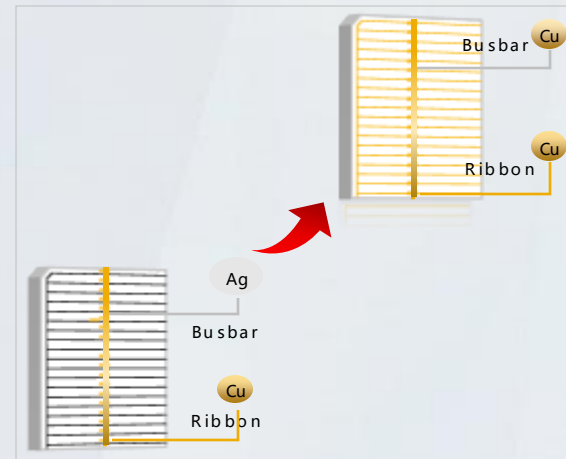
Upgraded Process

Copper electroplating process does not require sintering, making silicon wafers more durable



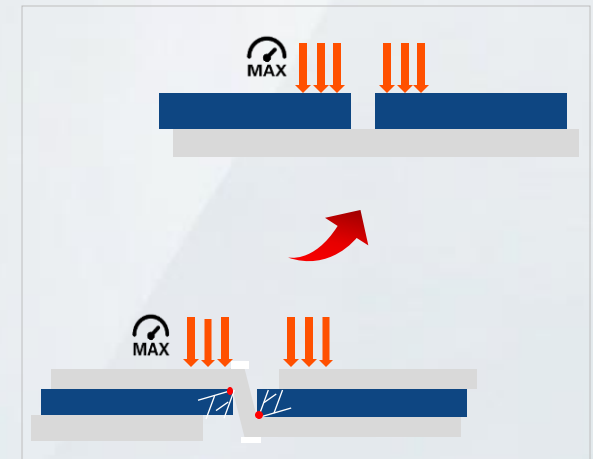
Upgraded Combination

The average tensile strength of the combination of the copper busbar and copper ribbon can reach over 5N, making it more reliable



Upgraded Soldering

Compare to Z-shape overlap Soldering, which prone to stress-induced micro-cracks, Single-side Soldering decreased risk.

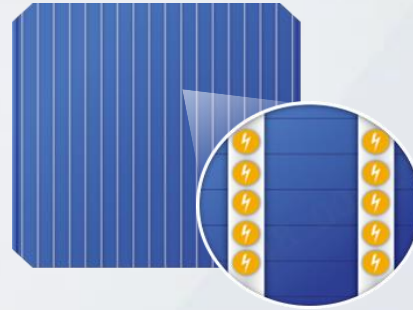


High Reliability – Micro-crack Resistance

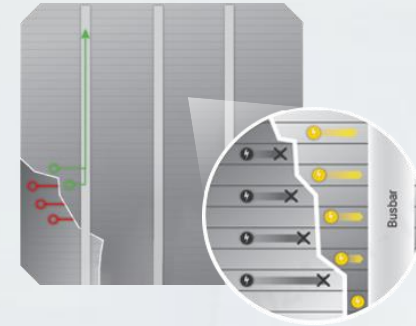
**Current
Collection
Explanation**



No cracks in the cell
Current collection in metal grids



Micro-crack cell
Current collection is blocked



**Micro-crack
Types**



Edge crack
Near welding edge



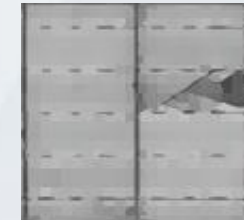
Longitude crack
Cross the busbar



Oblique crack
Along busbar



Dendritic crack
Tree-shape



High Reliability – Micro-crack Resistance



Under the same impact conditions, AIKO's copper-busbar ABC cells reduce power loss

by **-24%** compared with traditional **silver-busbar TOPCon cells**,

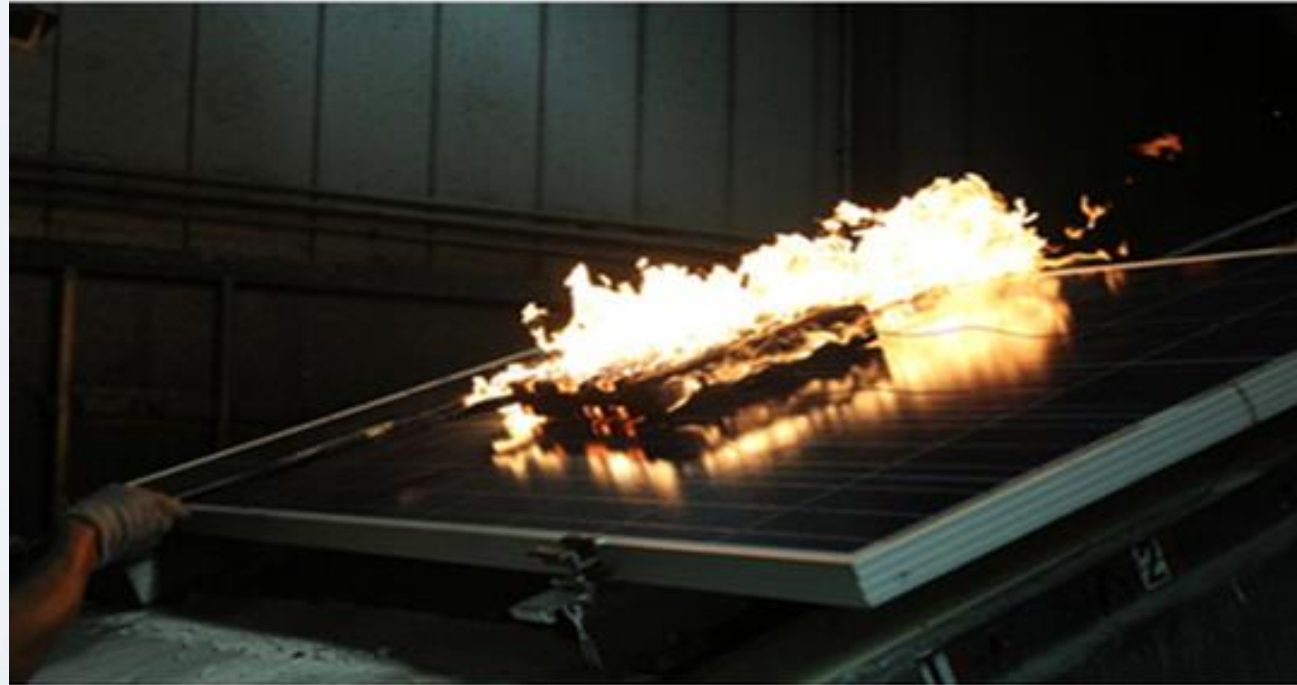
by **-11%** compared with other **silver-busbar BC cells**.

High Reliability – IEC Fire Class A, Highest Industrial Standard

Dual-glass Module

ABC Module
2 mm+2 mm glass

Regular Module
1,6 mm+1,6 mm glass



LEADING EDGE CONSTRUCTION MATERIALS TESTING COMPANY LIMITED
Asia Aluminum Industrial City, The New & High Tech Industrial Development Zone,
Dawang, Zhaoqing, Guang Dong Province, China
Tel.: (852) 3705 3591 / (86) 758-3632768 Fax.: (852) 3705 2074 Email: info@le-testlab.com



Test Report for UL790

Description of Specimen

Identification of Test Item:	Q24A75-A -Class A Spread of frame test (Serial No.: Y1124122E066800005) Q24A75-B -Class A Burning brand test (Serial No.: Y1124122E0668000017)
Manufacturer Information:	Shenzhen Aiko Digital Energy Technology Co., Ltd.
Module(type):	AIKO-G620-MCH72Dw
Dimension:	2382*1134*30mm
Test Method:	Perform Fire Test, according to UL790 (Follow the Requirement of IEC 61730-2/MST-23), Fire Class A.

Purpose of Test

This test is used to determine if the classification of the photovoltaic panel in accordance with the requirement of UL790 (Follow the Requirement of IEC 61730-2/MST-23), Fire Class A.

Measuring Equipment Used

1. Type K Thermocouple (I.D. No.: LE39108, Next Calibration Date: 18- Sept-2024)
2. Type K Thermocouple (I.D. No.: LE39109, Next Calibration Date: 18-Sept-2024)
3. Anemometer (I.D. No.: LE 4031, Next Calibration Date: 9-Jan-2025)

High Reliability - Anti-Hail Performance



TUV & PVEL Certified 40mm Hail Performance
Suitable for extreme weather operation Requirement

Prüfbericht - Produkte Test Report - Products			
Prüfbericht-Nr. / Test report no.:	DE244T5B 001	Auftrags-Nr. / Order no.:	30010 1977
Kunden-Referenz-Nr. / Client reference no.:	2062211	Auftragsdatum / Order date:	2024-03-27
Auftraggeber / Client:	Aiko Energy Netherlands B.V. (for add. information see page 3)		
Prüfgegenstand / Test item:	Photovoltaik Module		
Bezeichnung / Typ-Nr. / Identification / Type no.:	AIKO-A455-MAH54Mb (representative for AIKO-Axxx-MAH54M-family)		
Auftrags-Inhalt / Order content:	Hail impact test with the aim of recommendation/classification for VFK "Hagelregister"		
Prüfungslage / Test specification:	according to / following VFK - Prüfbestimmung *** "Nr. 23 "Photovoltaik Module" - Version 1.03 (01/11/2016) following IEC 61215-2 "Terrestrial photovoltaik module - Design qualification and type approval - Part 2: Test procedures"		
Wareneingangsdatum / Date of sample receipt:	2024-04-10		
Prüfmuster-Nr. / Test sample no.:	see "List of test samples"		
Prüfzeitraum / Testing period:	2024-04-30 - 2024-05-13		
Ort der Prüfung / Place of testing:	Am Grauen Stein, 51105 Köln, Cologne		
Prüflaboratorium / Testing laboratory:	TUV Rheinland Solar GmbH		
Prüfergebnis / Test result:	Siehe Sonstiges / See Other		
geprüft von / tested by:	X	genehmigt von / authorized by:	X
Datum / Date:	2024-05-22	Ausstellungsdatum / Issue date:	2024-05-22
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	*** VFK (Vereinigung Kantonaler Feuerversicherungen) // Additional test specifications: - Prüfbestimmung Nr. 00a - Allgemeiner Teil A - Version 1.03 (01/03/2018) - Prüfbestimmung Nr. 00b - Allgemeiner Teil B - Version 1.01 (01/11/2016) - Beschlussammlung HSR - formal - Version 23 (30.08.2022) - Beschlussammlung HSR - technisch - Version 19 (13/06/2018)		
Zustand des Prüfgegenstandes bei Anlieferung / Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt / Test item complete and undamaged		
* Legend: Pass = entspricht o.g. Prüfungsregeln / Pass = corresponds to o.g. test specifications / Fail = entspricht nicht o.g. Prüfungsregeln / Fail = does not correspond to o.g. test specifications / Not = nicht getestet / Not = not tested ** Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht ausgangswise veröffentlicht werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfmusters. *** This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.			
TÜV Rheinland Solar GmbH, Am Grauen Stein, 51105 Köln, Germany Mail: service@ds.tbv.com - Web: www.tbv.com			

PVEL member of group **kiwa**

Test Sequence
40mm Hail Test
AIKO Digital
Technology Co., Ltd.
Mw Module

Robust Front Glass Protect ABC Cell from Hail Strike

	ABC Mono-glass	ABC Dual-glass	TOPCon Dual-glass
Front Glass Thickness	3.2mm	2mm	1.6mm
Hail Test Performance	40mm	35mm	25mm



AIKO Supply Chain Traceability

SUPPLIER MANAGEMENT - sustainable risk management throughout the entire procurement cycle



- Crafted a Supplier Social Responsibility Self-Assessment for evaluation.
- Conducted risk reviews of suppliers across environmental, social, and governance (ESG) dimensions.



- Enforced Supplier Code of Conduct, rejecting conflict minerals and ensuring ethical, safe, and environmentally responsible sourcing.



- Implemented an effective Supplier Lifecycle Management System, overseeing suppliers with a graded and categorized approach from onboarding to exit.

SUPPLY CHAIN MAP - integrate the green, transparent, low-carbon supply chain

End to End Traceable Supply Chain : Silicon materials used in AIKO ABC cells are all from upstream suppliers, they are not involved in forced labor and by providing PO, receipts, invoices, payment records, delivery records, and incoming inspection. Cells and Modules are self-produced by AIKO, and can be traced internally through the MES system

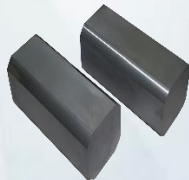
Polysilicon

- Upstream supplier
- Yunnan/Sichuan



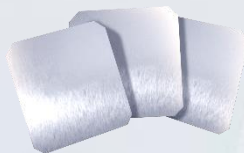
Ingots

- Upstream supplier
- Yunnan/Inner Mongolia



Wafer

- Upstream supplier
- Yunnan/Inner Mongolia



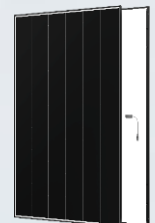
Cell

- AIKO
- Zhejiang/Guangdong



Module

- AIKO
- Zhejiang/Guangdong



ESG framework

- 2023: First bilingual (CN/EN) ESG report published, alongside annual report.
- 2023: Joined United Nations Global Compact.
- 2024: Joined Carbon Neutrality Committee, China Energy Conservation Association.

Low-carbon products

- 2nd-Gen ABC Neostar & Comet Modules: Achieved Carbon Footprint Certification from Certisolis (France)

Green production

- Green Factory Certification: Tianjin & Zhejiang bases (national-level).
- Jinan Base: 100% green electricity/90% water recycling/30% waste heat recovery
- Impact: Sets new benchmark for green PV manufacturing.

20+ ESG Awards & Certification

Not only highlight the firm commitment to green and sustainable development but also reflect AIKO's contributions to global energy security and low-carbon development

2024 Germany ESG Transparency Highest Level Excellence Award



2023 ESG Practice Excellence Award & Excellence in Green and Low-Carbon Technology Innovation



AIKO products have obtained the carbon footprint certification from Certisolis



2023 ESG Pioneer Award for Technology Companies



2023 ESG New Benchmark Enterprise Award



2024 Best ESG Practice Award for Listed Companies



2024 ESG Model Enterprise Science and Technology Innovation Pioneer Award



The 3rd International Green Zero-Carbon Festival ESG Model Enterprise Award



Securities Star ESG New Benchmark Enterprise Award



2024 SMM & Dun & Bradstreet ESG Excellence Award



2023-2024 Xinhua News Agency Intelligent Zero-Carbon Achievement Exhibition



High Reliability - Rigorous Certification and Testing

Bankability



Environmental

- EMC
- WEEE
- RoHS
- As & Se
- Reach
- TCLP



Regional special

- MCS
- ECS(450kg)
- ETN
- Fireproof Italy
- EPD-Italy/Norway



Reliability

- salt mist
- dust&sand
- Ammonia
- PID
- LeTID
- Hail 40mm
- TC600
- DH3000
- HF40
- DML
- SO2 resistance

Functional

- PVEL(2024)
- Reflectivity
- Shading resistance

TÜVNORD

SMETA

Residential ABC Product – Generation 2

Neostar 2S
Neostar 2S+
460-470W

up to 23.6%
Dual/Mono-glass Black



1757*1134*30mm

470W



+15W

455W
TOPCON

Neostar 2P
Neostar 2P+
460-480W

up to 24.1%
Dual/Mono-glass White



1757*1134*30mm

480W



+20W

460W
TOPCON

Neostar 2S60
Neostar 2S+60
Neostar 2P60
500-520W

up to 23.5%
Dual/Mono-glass
Black/White



1954*1134*30mm

520W



+20W

500W
TOPCON

≤ 1%/0.35%

First year/Year by year

-0.26%/°C

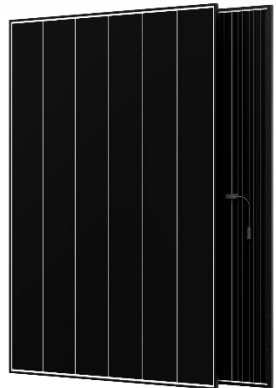
Temperature coefficient



Commercial & Industrial ABC Product – Generation 2

Neostar 2P Neostar 2P+ 475-500W

up to 24.1%
Dual/Mono-glass White



480W



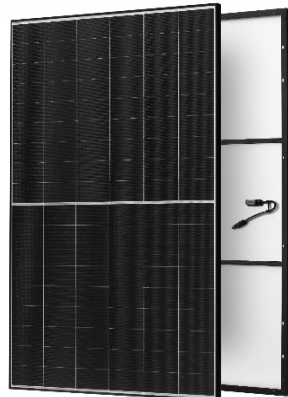
+20W

460W
TOPCON

1757*1134*30mm

Nebular 2P 440-445W

up to 23.0%
Light Weight Module



445W



+25W

420W
TOPCON

1762*1134*30mm

8,6kg
-60% Lighter

Comet 1N 610-615W

up to 23.8%
Mono-glass White



615W



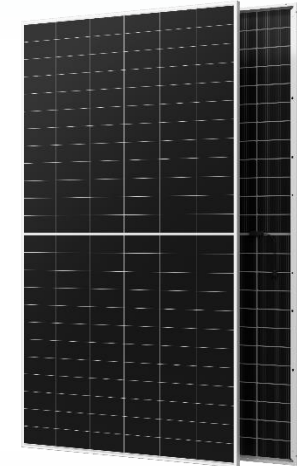
+10W

605W
TOPCON

2278*1134*30mm

Comet 2U Stellar 1N+ 645-650W

up to 24.2%
Dual/Mono-glass
Black/White



650W

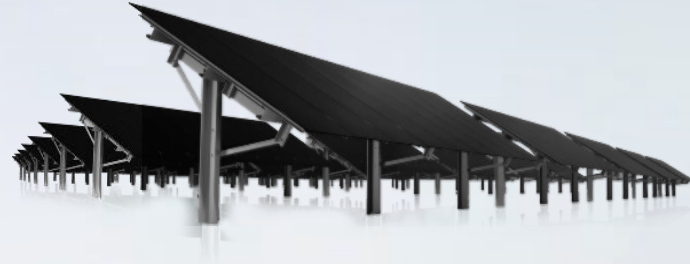


+10W

640W
TOPCON

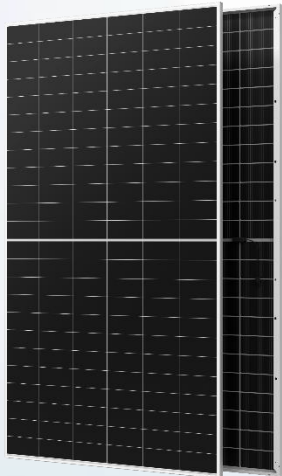
2382*1134*30mm

Utility ABC Product



Stellar 1N+72
Stellar 2N+66
Stellar 3N+72
Stellar 2N+78
645-775W

up to 24.6%
78/72/66-cell Bifacial Dual-glass



2382*1134*30mm
2465*1303*33mm

Advantage I

Partial shading optimization

Advantage II

High temperature restriction

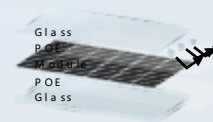
Advantage III

Micro-crack resistance

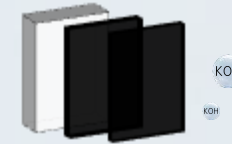
Optional

Water proof package

Water Resistance Encapsulation



Anti-corrosion Frame



Waterproof Cap



Optional

Anti-Glare

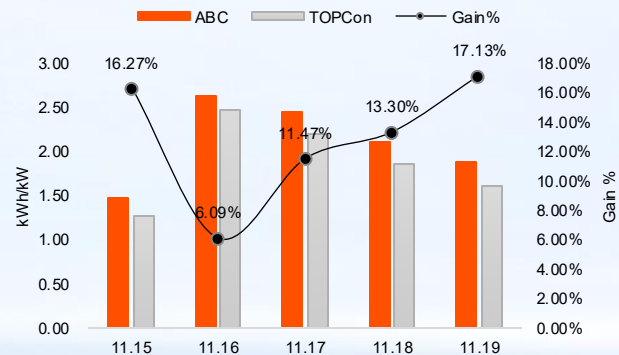
Anti-Dust

Case Examples

Tree Shading

The ABC dual-glass 635W module generates **12.04%** more electricity per kilowatt than the TOPCon dual-glass 570W over five days

Type	ABC Dual-glass 635W	TOPCon Dual-glass 570W	Gain
Each kW of Power Generation (kWh/kW)	10.54	9.41	+12.04%
Power generation (kWh)	80.33	64.36	24.81%

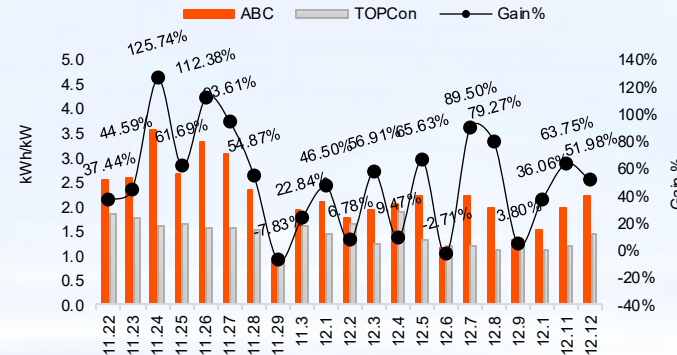


1. Baseline: TOPCon; Installed 12 module for each type (72P)
2. Location: Guangdong, Zhanjiang

Obstacle

The ABC mono-glass 600W module generates **50.72%** more electricity per kilowatt than the TOPCon mono-glass 580W over 21 days

Type	ABC Mono-glass 600W	TOPCon Mono-glass 580W	Gain
Each kW of Power Generation (kWh/kW)	45.27	30.03	+50.72%
Power Generation (kWh)	27.24	17.53	55.36%

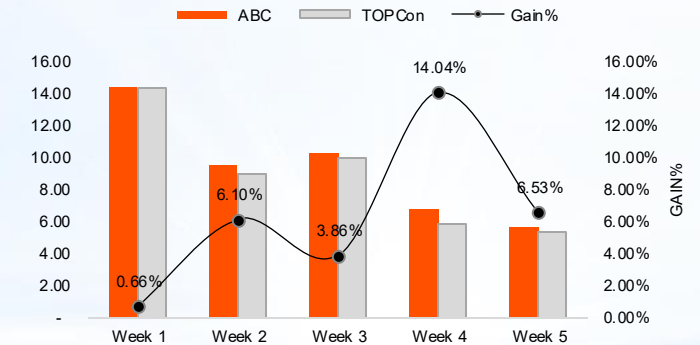


1. Baseline: TOPCon; Installed only 1 module for each type (72P)
2. Location: Guangdong, Zhuhai

Dust Shading

The ABC mono-glass 600W module generates **4.94%** more electricity per kilowatt than the TOPCon mono-glass 580W over 32 days

Type	ABC Mono-glass 600W	TOPCon Mono-glass 580W	Gain
Each kW of Power Generation (kWh/kW)	46.55	44.35	+4.94%
Power generation (kWh)	27.93	25.92	7.75%



1. Baseline: TOPCon; Installed only 1 module for each type (72P)
2. Location: Guangdong, Zhuhai

Summary

Yearly produced electricity
+9.8%

ABC Payback period
5 Months faster

Lifetime revenue
+12.5% / €2,828

+654 kWh/ annually

1 month
Family consumption



Save 224kg/ annually CO₂ emissions

1,428km
Driving emissions

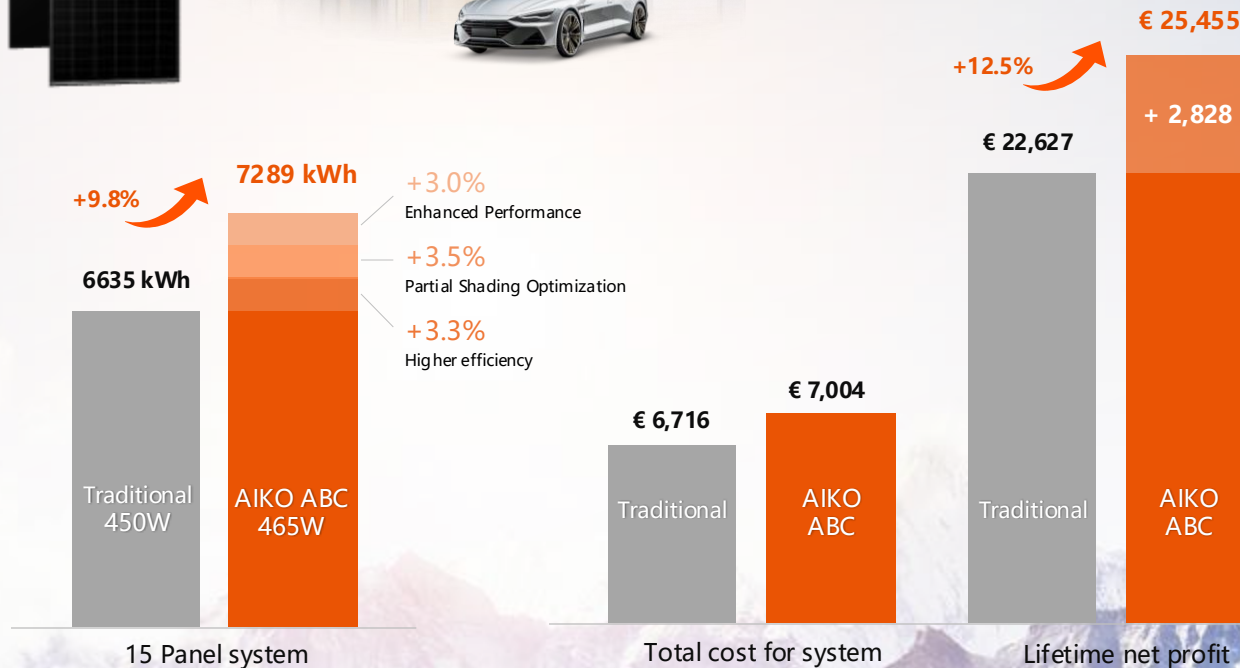


Location
Helsinki, Finland

Four people household
Annual consumption
18,000 kWh

Installation
Gable roof
30° South facing

Electricity
Price: € 0.08/kWh
Total cost: € 0.15/kWh



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