Aiko Solar Company and Product Introduction

2023-04-21, Frankfurt



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ABC Module

One Stop Solution

Open Discussion

"Pioneering a zero-carbon society through impactful contributions"

Power Up





2022 Production capacity

2022 revenue

the state

B\$







R&D employees

Patent Applications/Granted

ΛΙΚΟ

A - Advance
I - Innovation
K - Keen
O - Overturn

1st N-Type Module with Reddot winner 2023

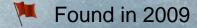
1st Commercial PV Module 23.6% in 2022

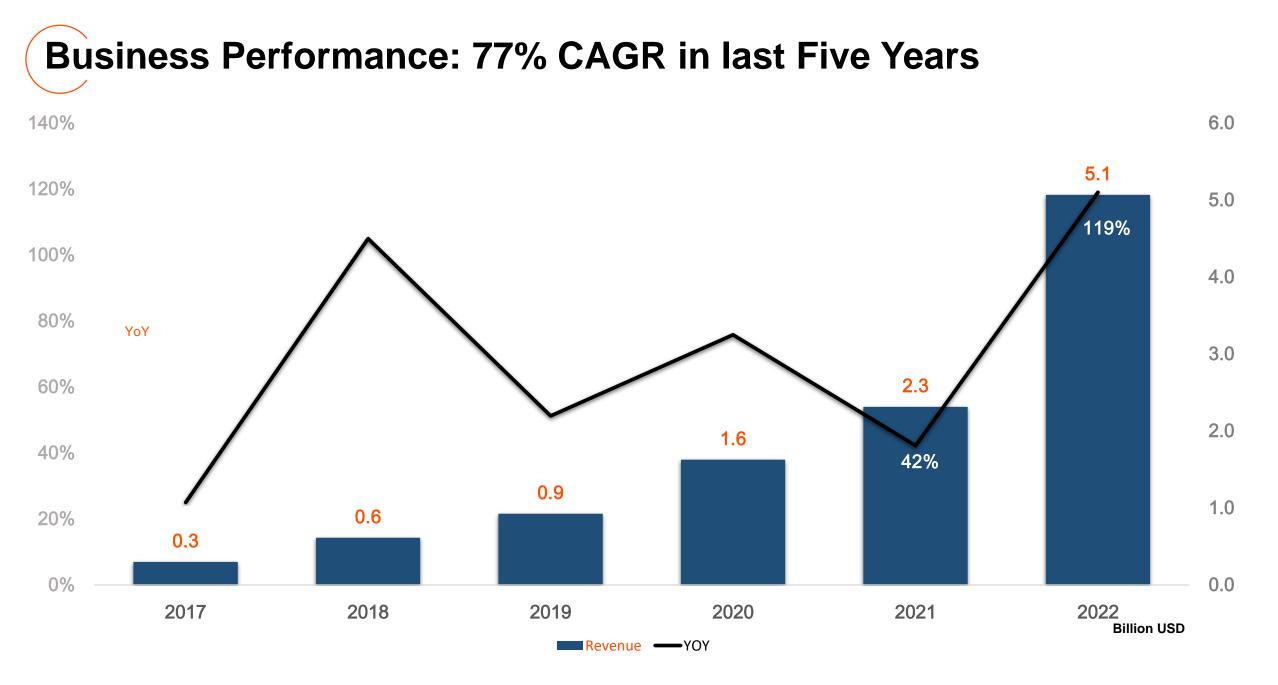
1st ABC Cell 26.2% in 2021

1st 210mm PERC in 2020

1st Bifacial Technology in 2018

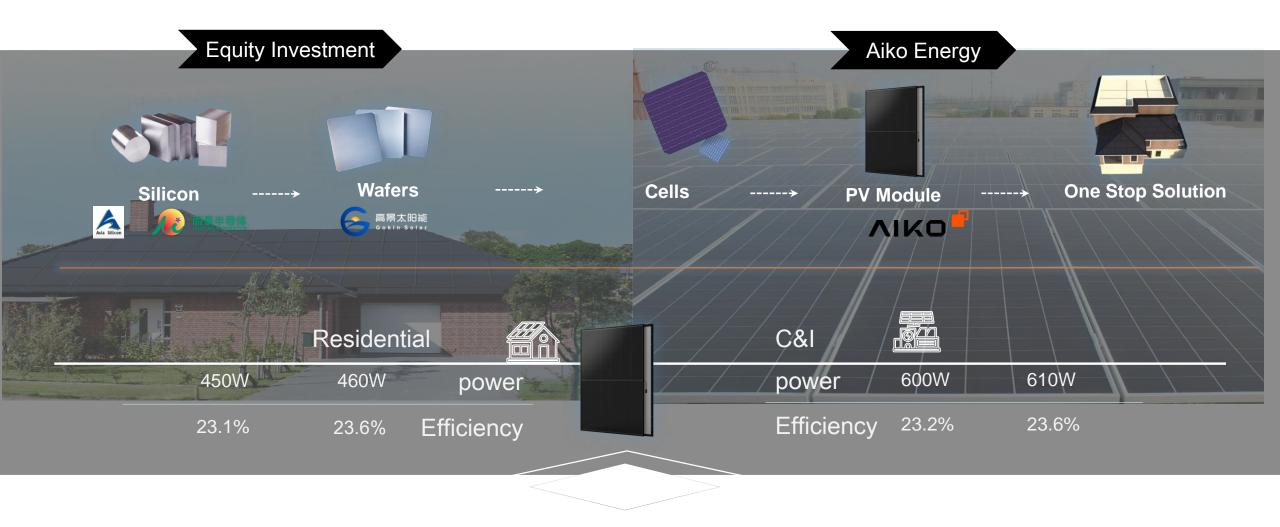
Main 1st Tubular PERC in 2016





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Value Chain -- Overview



Aikosolar ranked 1st in global PV cell shipment in 2021

2016 ►		2020 ►		2021 ►		
①Trinasolar	4,998	(1)Longi	14,683		31,274	
②JA Solar	4,920	②Tongwei	12,100	②Tongwei	27,334	
③Hanwha	4,046	③JA Solar	10,751	③Longi	19,637	
④Jinko	3,890		10,521	④Jinko	16,849	
⑤ Motech	2,925	⑤ Trinasolar	9,001	⑤Talesun	10,731	
⑥First Solar	2,650	⑥Jinko	8,655	⑥JA Solar	10,658	
⑦Longi	2,60	⑦Canadian Solar	8,337	⑦Canadian Solar	8,675	
	2,440	Talesun	7,435	®Runergy	8,017	
⑨Yingli	2,360		6,313	Image:	7,614	
	2,228	<pre> </pre>	5,500	<pre> @First Solar </pre>	7,611	
Тор 10	33,107	Тор 10	93,294	Тор 10	148,410	TT 1. D FTT
Total Shipment	69,460	Total Shipment	131,709	Total Shipment	193,966	Unit: MW



Source: NREL 2021, https://www.nrel.gov/docs/fy22osti/82854.pdf



Production Capacity – 42.5GW



Strong R&D Investment



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Intelligent Manufacture Base Developed with German Technology



Sales and Supply Partnership with Industry Leaders



European Logistics Center- Up to 10,000m² in the Netherlands



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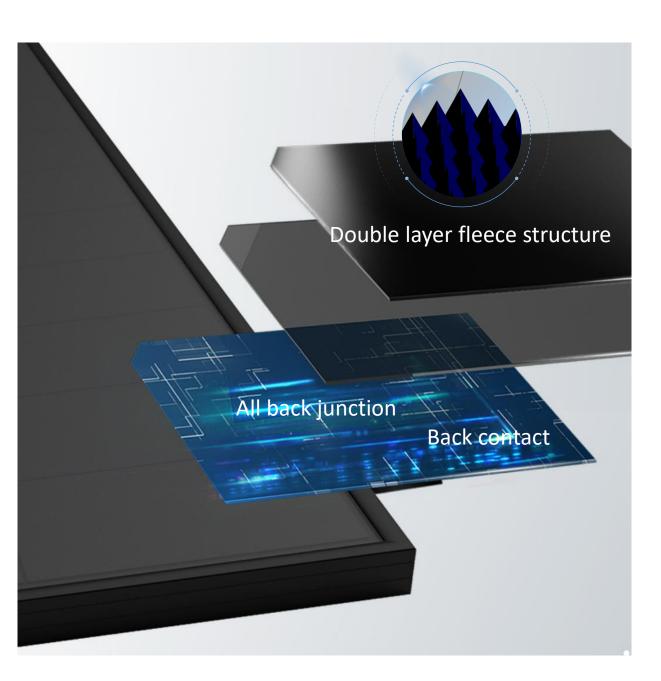
One Stop Solution

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ABC

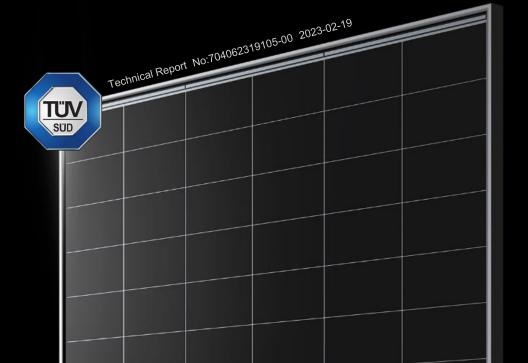
All Back Contact

Front: All Area is Effective to Absorb Sunlight



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Elegant and Powerful ABC Module: More than +15% Yield with +7% BOS Reduction



Higher Yield

- 1. 2m² 460+W
- 2. Efficiency up to 23.6%
- 3. Temp. coef. ≤ -0.29%/K
- 4. 1st Year $\le 1\%$, 2rd-30th Year $\le 0.35\%$

reddot d

5. 30 Year Performance Warranty

Aiko Solar ABC – Industrial Leading Efficiency

Rank	Company	Series	Model	Wafer Type	Cell Size	Cells No.	Cell Tech	Module Technology	Power (W)	Efficiency (%)
1	Aikos olar®	ABC White hole	AIKO-A610-MAH72Mw	n-type	182	144	ABC	Halfcell, Back Contact	610	23.6
2	LONGI	Hi-MO 6	LR5-72HTH-590M		182	144	HPBC	Halfcell, Backcontact	590	22.8
2	Maxeon	Maxeon 6	SPR-MAX6-440-E3-AC	n-type	-	66	IBC	Back Contact	440	22.8
4	JinKO	Tiger Neo	JKM585N-72HL4-V	n-type		144	TOPCon	Halfcell, MBB	585	22.65
5		Himalaya	HS-210-B132	n-type	210	132	НЈТ	Bifacial, Halfcell, MBB	700	22.53
5	一中来股份	Niwa Light	JW-HT108N	n-type	182	108	TOPCon	Halfcell, MBB	440	22.53
7	JA SOLAR	DeepBlue 4.0	JAM72D40 580/GB	n-type	182	144	TOPCon	Bifacial, Halfcell, MBB	580	22.5
7	🏐 TW SOLAR		TWMND-72HS560-580W	n-type	182	144	TOPCOn	Halfcell, MBB	580	22.5
7	Canadian Solar	HiHero	CS6R-420-445H-AG	n-type	182	108	HJT	Halfcell, MBB	440	22.5
10		Astro N5	CHSM78N(DG)/F-BH	n-type	182	156	TOPCon	Bifacial, halfcell, MBB	625	22.4
11	Canadian Solar	TOPBiHiKu6	CS6W-575TB-AG	n-type	182	144	TOPCon	Bifacial, Halfcell, MBB	575	22.3
11	Trina solar	Vertex S+	TSM-NEG9R.28	n-type	210	144	TOPCon	Halfcell, MBB	445	22.3
11	🙋 SPIC	ANDROMEDA 2.0	SPICN6(LAR)-66/IH	n-type	166	132	IBC	Halfcell, MBB	440	22.3
11			DAS-DH108NA	n-type	182	108	TOPCon	Bifacial, halfcell, MBB	435	22.3
11	REC	Alpha Pure-R	RECxxxAA Pure-R	n-type	210	80	HJT	Halfcell, SWCT	430	22.3
16	Akcome	Ak iPower	SKA611HDGDC	n-type	210	132	нјт	Bifacial, halfcell, MBB	690	22.22
17	Eging PV	Aurora Pro	EG-685NT66-HU/BF-DG	n-type	210	132	TOPCon	Bifacial, halfcell, MBB	685	22.05
18	Qcells	Q.TRON	Q.TRON BLK-G1+	n-type	-	120	TOPCon	Halfcell, MBB, Zero Gap	395	22
19	Meyer Burger	Meyer Burger Glass	Heterojunction Bifacial	n-type		120	НЈТ	Bifacial, halfcell, SWCT	390	21.8
20	Canadian Solar	HiKu7	CS7N-645-675MS	p-type	210	132	PERC	Halfcell, MBB	675	21.7

Module efficiency(%)

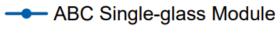
Module power(W)

Source: ©TaiyangNews 04-2023

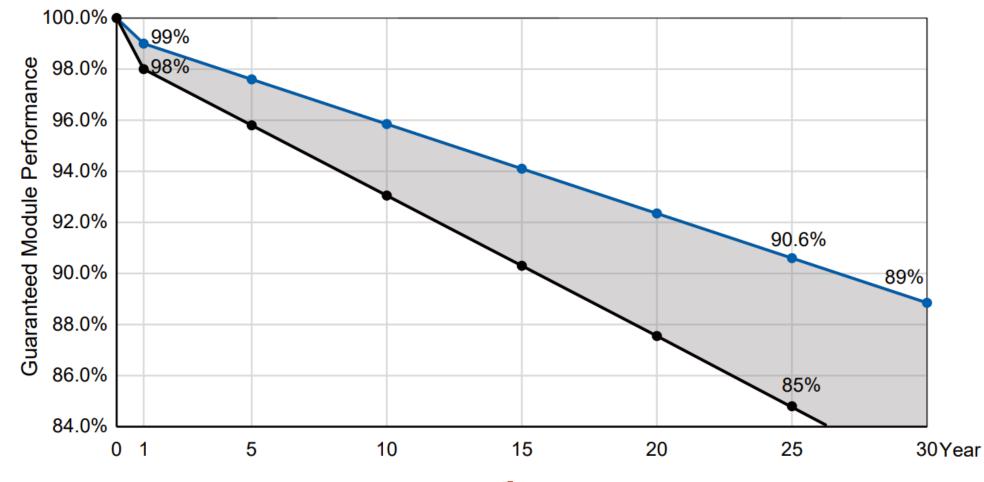


High Performance with 30 Year Linear Power Warranty

30-year Linear Power Warranty



----- PERC Single-glass Module



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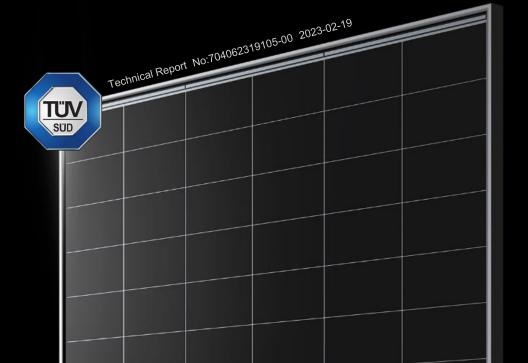


reddot winner 2023

ABC Module Product Design 2023

2m² 460w+ 480w+ 500w+

Elegant and Powerful ABC Module: More than +15% Yield with +7% BOS Reduction



Higher Yield

- 1. 2m² 460+W
- 2. Efficiency up to 23.6%
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5. 30 Year Performance Warranty

Premium Appearance

ABC Cell Silver Free Metal Coating With Reliable Supply Chain

820,000,000 Moz

Silver Demand in 2030 Solar Industry

ABC Module Portfolio

	Resid	ential	Commercial & Industry		
Scenario					
Model	AIKO-A450-MAH54Mb	AIKO-A460-MAH54Mw	AIKO-A600-MAH72Mb	AIKO-A610-MAH72Mw	
Pmax [W] @stc	450	460	600	610	
Voc [V] @STC	40.30	40.35	53.60	53.60	
Isc [A] @STC	13.78	14.03	13.78	14.03	
Efficiency @STC	23.0%	23.6%	23.2%	23.6%	
Dimension	1722 x 1134 x 35 mm	1722 x 1134 x 35 mm	2278 x 1134 x 35 mm	2278 x 1134 x 35 mm	
Weight	22.2kg	22.2kg	28.6kg	28.6kg	
Pmax Temp Coef	-0.29%/K	-0.29%/K	-0.29%/K	-0.29%/K	

ABC Frameless Light Module(<=4kG/m2) for Light Load Roof (Metal roof, old building) and Curve Roof

Type of Solar Cell	N-type A	ABC Cell	P-type PERC Cell		
Cells No.	108(6x18)	120(6x20)	108(6x18)	120(6x20)	
Dimension (mm)	1758x1142x2.8	1946x1142x2.8	1740x1142x2.8	1926x1142x2.8	
Pmax(W)	420-440	470-490	380-400	425-445	
Module Efficiency	≥20.9%	≥21.1%	≥19.1%	≥19.3%	
Installation	0-11-11	Quick-Bonding or	Fixture installation	1 Asp	

Reference Project - Full Coverage 12kWp

Build in 2022-12-23

NanJing

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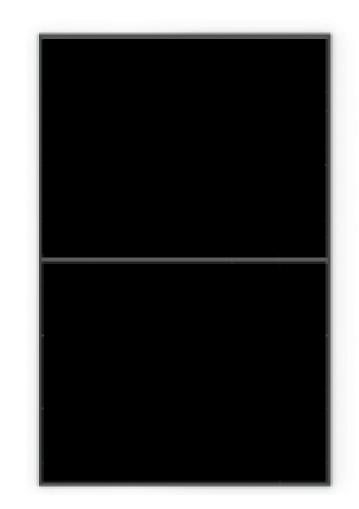
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Residential Solution Overview









Residential Reference Project — Foshan, +15% Power Performance

kWh	2022-Nov	2022-Dec	2023-Jan
PERC 537.2W	13.98	60.09	51.70
ABC 596.5W	16.10	69.63	59.09
Total Gain	15.2%	15.9%	14.3%
Gain Per Watt	3.8%	4.4%	2.9%
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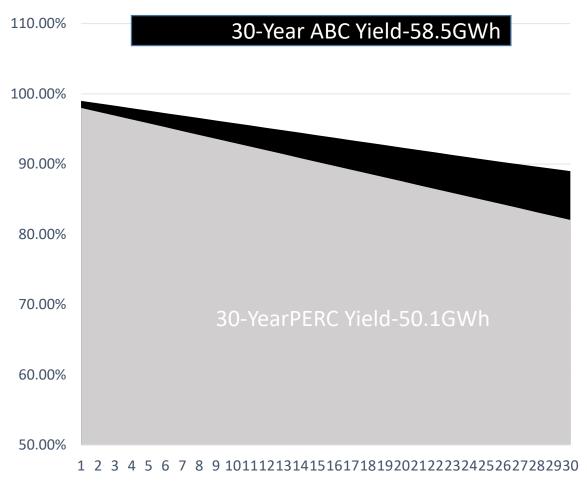
Commercial and Industry Solution Overview



C&I Reference Project — Zhuhai, 1.35MW, 13.4% Higher Yield for 30 Years

Item	Aiko Solar ABC 585W	Traditional PERC 545W
PV Module	3103 pcs	3103 pcs
Carbon Steel Stand	42.8 t	42.8 t
Shed Supporting System	9 t	9 t
Shed Mounting bracket	7 t	7 t
Solar Inverter	16	16
Inverter Mount bracket	1	1





■ ABC ■ Perc

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On the Way to build ABC Footprint with Global Partners