



# Stellar

ABC N-Type

Mono-Glass Model

Up to **24.4%**  
**625W-660W**



Product  
Warranty



Performance  
Warranty

## Premium Appearance

No grid lines on the front

## Higher Power Output

Higher efficiency: 24.4%

Lower degradation: 1 year  $\leq 1.0\%$ , 2 -30 year  $\leq 0.35\%$

Better temperature coefficient:  $-0.26\%/^{\circ}\text{C}$

## Optimized Balance of System (BOS)

Significant savings on mounting structure, cabling, and labour cost

## Shading Unique Optimization

## Complete Set of Quality Management System

IEC 61730 (2023) IEC 61215 (2021)

ISO 9001:2015 Quality Management System

ISO 14001:2015 Environmental Management System

ISO 45001:2018 Occupational Safety and Management System

(Made in China)

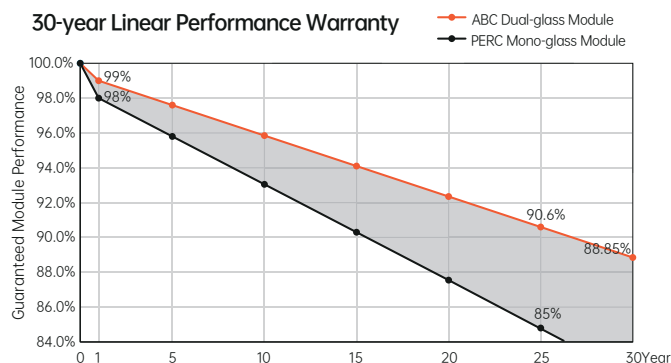


**660W**  
Output

**24.4%**  
Efficiency

**≤1%**  
First-year Degradation

**≤0.35%**  
Annual Degradation from Year 2-30



Electrical Characteristics (STC: AM1.5 1000W/m <sup>2</sup> 25°C NOCT: AM1.5 800W/m <sup>2</sup> 20°C 1m/s)																Power Tolerance:±3%	
Model	AIKO-G625-MCH72Mw		AIKO-G630-MCH72Mw		AIKO-G635-MCH72Mw		AIKO-G640-MCH72Mw		AIKO-G645-MCH72Mw		AIKO-G650-MCH72Mw		AIKO-G655-MCH72Mw		AIKO-G660-MCH72Mw		
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
P <sub>max</sub> [W]	625	471	630	474	635	478	640	482	645	486	650	490	655	493	660	497	
V <sub>oc</sub> [V]	53.90	50.90	54.00	51.00	54.10	51.09	54.20	51.18	54.30	51.28	54.40	51.37	54.50	51.47	54.60	51.56	
V <sub>mp</sub> [V]	44.60	42.12	44.70	42.21	44.80	42.31	44.90	42.40	45.00	42.50	45.10	42.59	45.20	42.69	45.30	42.78	
I <sub>sc</sub> [A]	14.82	11.98	14.88	12.03	14.94	12.08	15.00	12.13	15.06	12.18	15.12	12.23	15.18	12.28	15.24	12.32	
I <sub>mp</sub> [A]	14.02	11.19	14.10	11.25	14.18	11.31	14.26	11.38	14.34	11.44	14.42	11.51	14.50	11.57	14.57	11.63	
<b>Module Efficiency</b>	<b>23.1%</b>		<b>23.3%</b>		<b>23.5%</b>		<b>23.7%</b>		<b>23.9%</b>		<b>24.1%</b>		<b>24.2%</b>		<b>24.4%</b>		

Mechanical Specification	
Cell Type	N-Type ABC
Glass	Mono-Glass, 3.2 mm tempered glass
Frame	Anodized aluminum
Cable	4mm <sup>2</sup> (IEC) 12AWG(UL) 350mm
No. of Cells	144(6*24)
Junction Box	IP68, three bypass diodes
Connector	MC4 EVOA/MC4 EVO2
Weight	31.5kg±3%
Dimension	2382*1134*35mm
Package Detail	31pcs per pallet/124 pcs per 20' GP/620pcs per 40' HQ

Temperature Ratings (STC)	
Temperature Coefficient of I <sub>sc</sub>	+ 0.05%/ °C
Temperature Coefficient of V <sub>oc</sub>	- 0.22%/ °C
Temperature Coefficient of P <sub>max</sub>	- 0.26%/ °C

Installation Guide	
Operation Temperature	- 40°C~+85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
V <sub>oc</sub> and I <sub>sc</sub> Tolerance	±3%
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class C



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\*AIKO Energy reserves right to update the specification without notice  
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