



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)

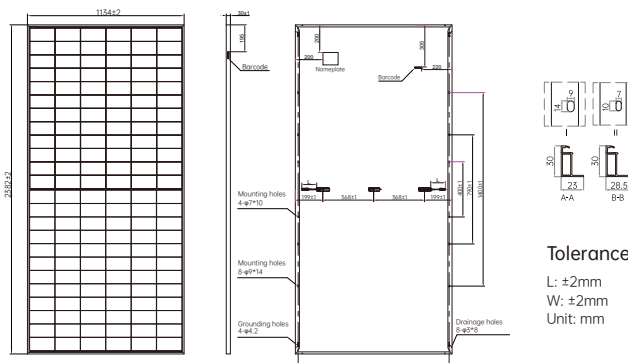
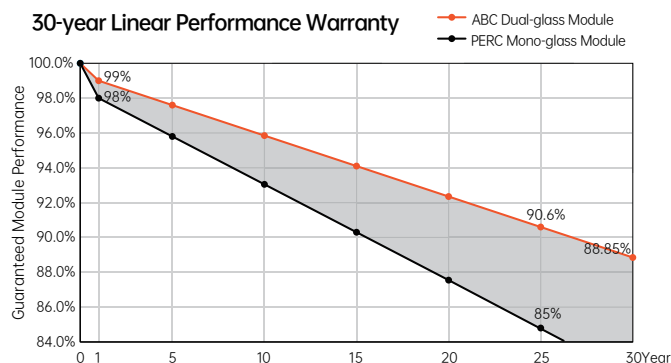


660W
Output

24.4%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30



Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s) Power Sorting Tolerance:0~+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	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	625	471	630	474	635	478	640	482	645	486	650	490	655	493	660	497
V _{oc} [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 _{mp} [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 _{sc} [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 _{mp} [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
Module Efficiency	23.1%		23.3%		23.5%		23.7%		23.9%		24.1%		24.2%		24.4%	

Note: Measurement tolerance for Pmax:±3%

Mechanical Specification

Cell Type	N-Type ABC
Glass	Mono-Glass, 3.2 mm tempered glass
Frame	Anodized aluminum
Cable	4mm ² (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*30mm
Package Detail	31pcs per pallet/124 pcs per 20' GP/620pcs per 40' HQ

Temperature Ratings (STC)

Temperature Coefficient of I _{sc}	+ 0.05%/ °C
Temperature Coefficient of V _{oc}	- 0.22%/ °C
Temperature Coefficient of P _{max}	- 0.26%/ °C

Installation Guide

Operation Temperature	- 40°C~+85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
V _{oc} and I _{sc} 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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