



N-Type ABC Comet Series

AIKO-A-MAH72Mw

Up to **23.9%**
610W-630W



Product
Warranty



Performance
Warranty



reddot winner 2023

Premium Appearance

No grid lines on the front

Higher Power Output

Higher efficiency: 23.9%

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

Complete Set of Quality Management System

IEC 61730 (2016) IEC 61215 (2021)

ISO 9001:2015 Quality Management System

ISO 14001:2015 Environmental Management System

ISO 45001:2018 Occupational Safety and Management System

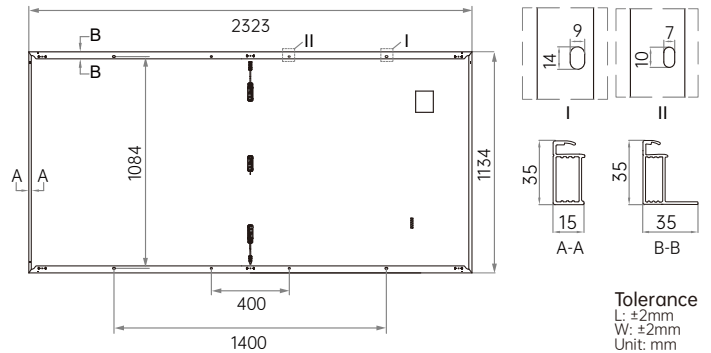
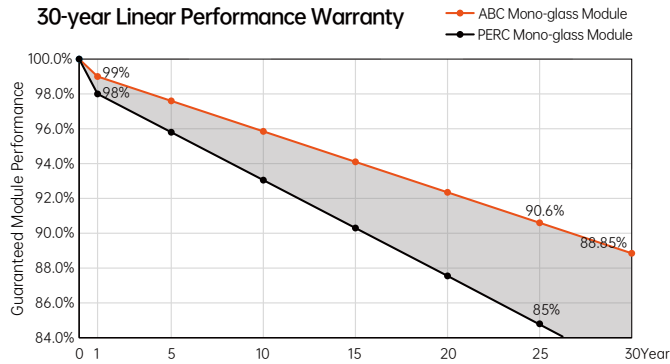


630W
Output

23.9%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30



Electrical Characteristics (STC: AM1.5 1000W/m ² 25°C NOCT: AM1.5 800W/m ² 20°C 1m/s)										Power Tolerance: 0~ +3%	
Model	AIKO-A610-MAH72Mw		AIKO-A615-MAH72Mw		AIKO-A620-MAH72Mw		AIKO-A625-MAH72Mw		AIKO-A630-MAH72Mw		
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
P_{max} [W]	610	459	615	463	620	467	625	471	630	474	
V_{oc} [V]	54.19	51.18	54.29	51.27	54.39	51.36	54.49	51.46	54.59	51.55	
V_{mp} [V]	44.88	42.38	44.98	42.48	45.08	42.57	45.18	42.67	45.28	42.76	
I_{sc} [A]	14.36	11.61	14.44	11.68	14.52	11.74	14.60	11.81	14.68	11.87	
I_{mp} [A]	13.60	10.85	13.68	10.91	13.76	10.98	13.84	11.04	13.92	11.11	
Module Efficiency	23.2%		23.3%		23.5%		23.7%		23.9%		

Mechanical Specification	
Cell Type	N-Type ABC
Front Cover Mono glass	3.2 mm tempered glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) 1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, three bypass diodes
Connector	MC4 compatible
Weight	29kg±3%
Dimension	2323*1134*35mm
Package Detail	31pcs per pallet/155 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