



N-Type ABC Comet Series

AIKO-A-MAH72Dw

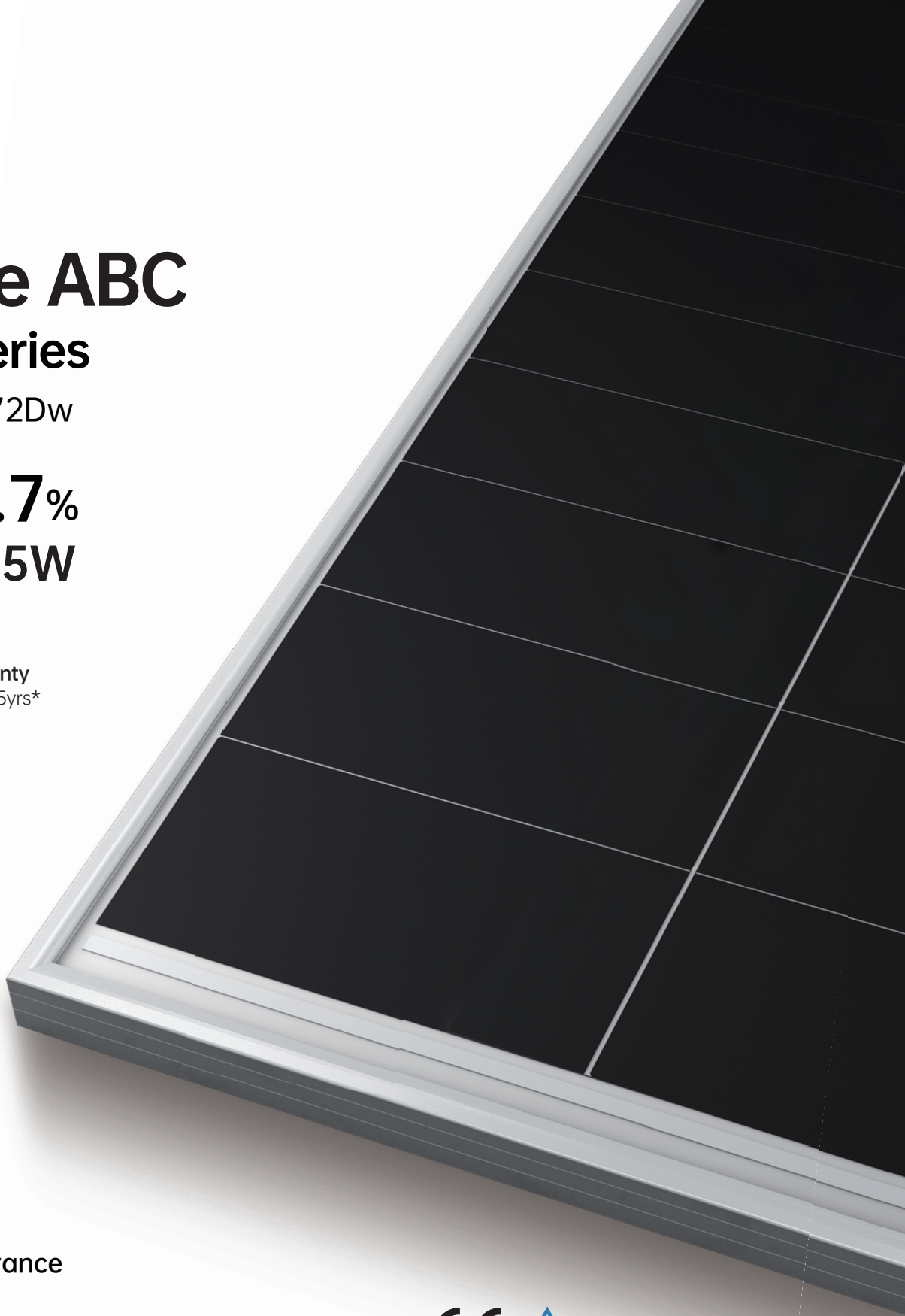
Up to **23.7%**
605W-625W



Product Warranty
Extendable to 25yrs*



Performance
Warranty



Premium Appearance

No grid lines on the front

Higher Power Output

Higher efficiency: 23.7%

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

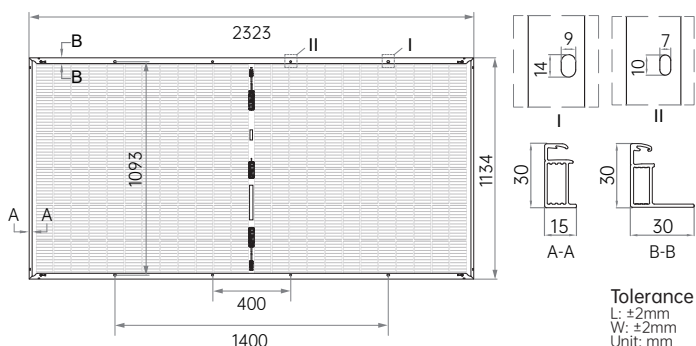
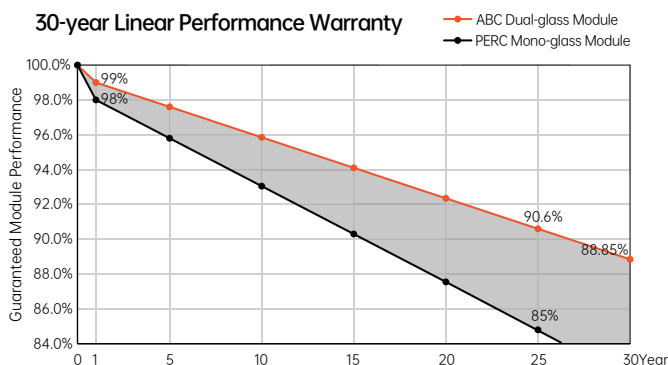
ISO 45001:2018 Occupational Safety and Management System

* Product warranty extendable to 25 years, applies to China, Japan, Europe and Australia

625W
Output

23.7%
Efficiency

 $\leq 1\%$
First-year Degradation

 $\leq 0.35\%$
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 Tolerance: 0~ + 3%

Model	AIKO-A605-MAH72Dw		AIKO-A610-MAH72Dw		AIKO-A615-MAH72Dw		AIKO-A620-MAH72Dw		AIKO-625-MAH72Dw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	605	456	610	459	615	463	620	467	625	471
V_{oc} [V]	54.24	51.22	54.34	51.32	54.44	51.41	54.57	51.53	54.70	51.66
V_{mp} [V]	44.90	42.40	45.00	42.50	45.10	42.59	45.20	42.69	45.30	42.78
I_{sc} [A]	14.22	11.50	14.30	11.57	14.38	11.63	14.46	11.70	14.54	11.76
I_{mp} [A]	13.48	10.76	13.56	10.82	13.64	10.89	13.72	10.95	13.80	11.01
Module Efficiency	23.0%		23.2%		23.3%		23.5%		23.7%	

Mechanical Specification

Cell Type	N-Type ABC
Glass	Dual glass, 2.0+2.0mm coated semi tempered glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) 350mm/1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, three bypass diodes
Connector	MC4 compatible
Weight	33kg±3%
Dimension	2323*1134*30mm
Package Detail	36pcs per pallet/180 pcs per 20' GP/720pcs 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