



N-Type ABC Dual-glass Module

AIKO-A-MAH72Dw

Up to **23.8%**
595W-615W



Product
Warranty



Performance
Warranty



reddot winner 2023

Premium Appearance

No grid lines on the front

Higher Power Output

Higher efficiency: 23.8%

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

Better Temperature Coefficient: $-0.29\%/^{\circ}\text{C}$

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



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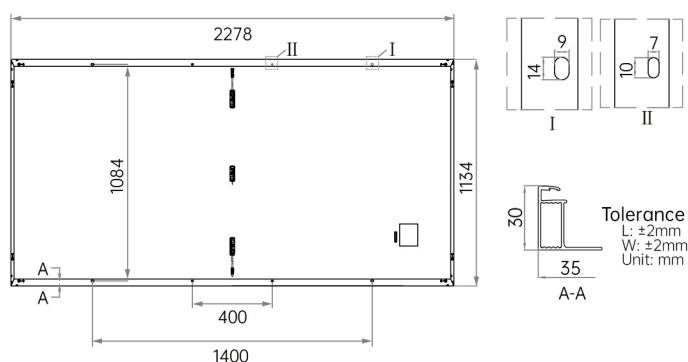
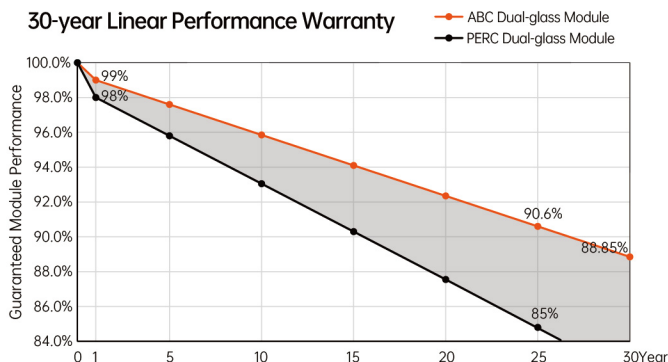
615W
Output

23.8%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30

30-year Linear Performance Warranty



Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s) Power Tolerance: 0~+3% Max Power Test Uncertainty: ±3%

Model	AIKO-A595-MAH72Dw		AIKO-A600-MAH72Dw		AIKO-A605-MAH72Dw		AIKO-A610-MAH72Dw		AIKO-615-MAH72Dw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	595	449	600	453	605	456	610	460	615	464
V _{oc} [V]	53.30	50.20	53.40	50.29	53.50	50.39	53.60	50.48	53.70	50.58
V _{mp} [V]	44.82	42.21	44.92	42.31	45.02	42.40	45.12	42.50	45.22	42.59
I _{sc} [A]	13.79	11.18	13.85	11.23	13.91	11.28	13.97	11.33	14.03	11.38
I _{mp} [A]	13.28	10.64	13.36	10.71	13.44	10.77	13.52	10.84	13.61	10.90
Module Efficiency	23.0%		23.2%		23.4%		23.6%		23.8%	

Mechanical Specification

Cell Type	Mono-crystalline Silicon
Glass	Dual glass, 2.0+2.0mm coated semi tempered glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) 350mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, three bypass diodes
Connector	MC4 compatible
Weight	32.5kg±3%
Dimension	2278*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}	- 0.24%/ °C
Temperature Coefficient of P _{max}	- 0.29%/ °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
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