AIKO

N-Type ABC
Dual-glass Module

AIKO-A-MAH72Dw

Up to 23.8%
595W-615W



15 year
Product Warranty

30 year
Performance Warranty

reddot winner 2023

Premium Appearance
No grid lines on the front

Higher Power Output
Higher efficiency: 23.8%
Lower degradation: 1 Year⩽1.0%, 2 -30 Year⩽0.35%
Better Temperature Coefficient: -0.29%/ ℃

Optimized Balance of System (BOS)
Significant savings on mounting structure, cabling, and labour cost

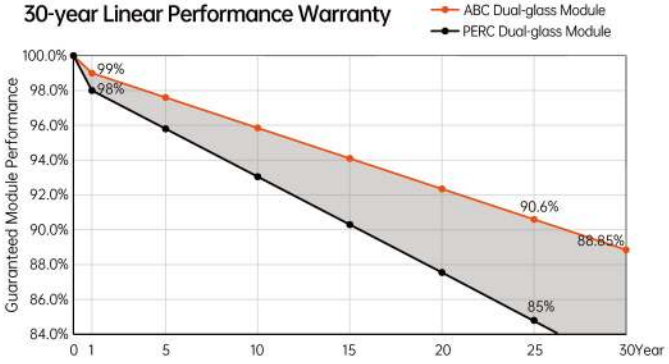
Complete Set of Quality Management System
IEC 61730 (2016) IEC 61215 (2021)
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System
ISO 45001:2018 Occupational Safety and Management System

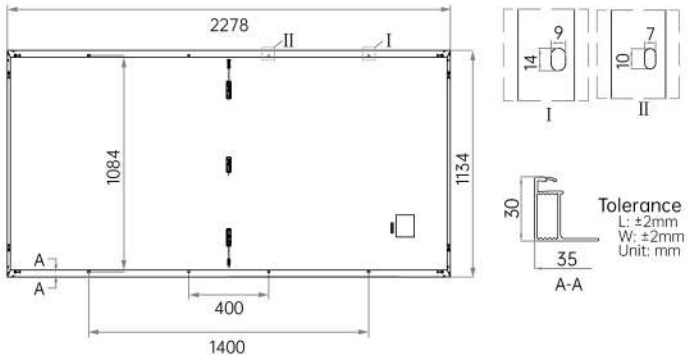
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N-Type ABC Dual-glass Module

AIKO-A-MAH72Dw

615W	23.8%	⩽1%	⩽0.35%
Output	Efficiency	First-year Degradation	Annual Degradation from Year 2-30





Electrical Characteristics (STC: AM1.5 1000W/m² 25℃ NOCT: AM1.5 800W/m² 20℃ 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	4mm²(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

Temeprature Ratings (STC)

Temperature Coefficient of I_{sc}	+ 0.05%/ ℃
Temperature Coefficient of V_{oc}	- 0.24%/ ℃
Temperature Coefficient of P_{max}	- 0.29%/ ℃

Installation Guide

Operation Temperature	- 40℃-+85℃
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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