



N-Type ABC White Hole Series

AIKO-A-MAH54Mw

Up to **23.8%**
450W-465W



Product
Warranty



Power
Warranty



reddot winner 2023

Higher Power Output

High Efficiency: 23.8%

Low Degradation: 1st year \leq 1%, year-on-year \leq 0.35%

Long Warranty: 15yrs on quality, 30yrs on power

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

Lower BOS Cost

Pure-black Front without Gridlines

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

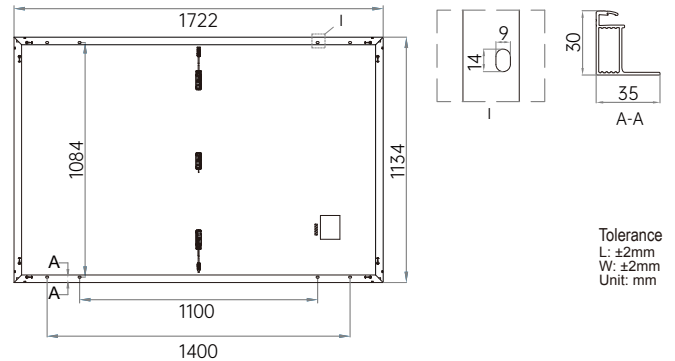
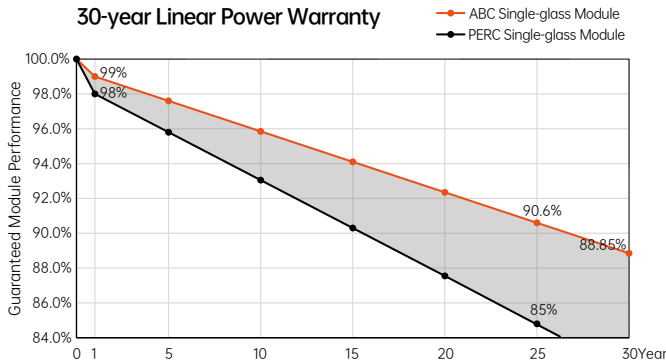


465W
Output

23.8%
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 Tolerance: 0~+3% Max Power Test Uncertainty: ±3%

Model	AIKO-A450-MAH54Mw		AIKO-A455-MAH54Mw		AIKO-A460-MAH54Mw		AIKO-A465-MAH54Mw	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	450	339	455	343	460	347	465	351
V_{oc} [V]	39.99	37.66	40.09	37.76	40.19	37.85	40.29	37.94
V_{mp} [V]	33.81	31.84	33.91	31.94	34.01	32.03	34.11	32.12
I_{sc} [A]	13.96	11.32	14.02	11.37	14.08	11.42	14.14	11.46
I_{mp} [A]	13.32	10.67	13.42	10.76	13.53	10.84	13.64	10.93
Module Efficiency	23.0%		23.3%		23.6%		23.8%	

Mechanical Specification

Cell Type	Mono-crystalline Silicon
Front Cover	3.2 mm tempered glass, with anti-reflection coating
Single glass	
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) 350mm or Customized Length
No. of Cells	108(6*18)
Junction Box	IP68, three bypass diodes
Connector	MC4 compatible
Weight	22.2Kg±3%
Dimension	1722*1134*30mm
Package Detail	36pcs per pallet/216 pcs per 20' GQ/936pcs per 40' HQ

Temperature Ratings (STC)

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

Installation Guide

Operation Temperature	- 40°C~+85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
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