



N-Type ABC Mono-glass Module

AIKO-A-MAH54Mb

Up to **23.6%**
435W-460W



Product
Warranty



Performance
Warranty



reddot winner 2023

Premium Appearance

No grid lines on the front

Higher Power Output

Higher efficiency: 23.6%
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
(Made in China)



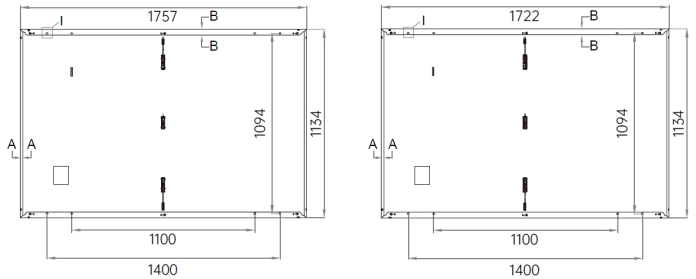
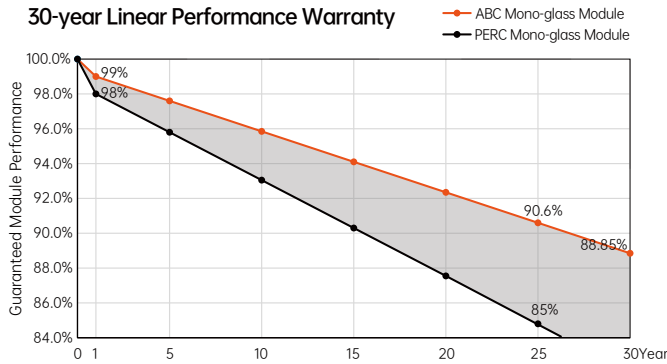
460W
Output

23.6%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30

30-year Linear Performance Warranty



Tolerance
L: ±2mm
W: ±2mm
Unit: mm

Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s)

Power Tolerance: ±3%

Model	AIKO-A435-MAH54Mb	AIKO-A440-MAH54Mb	AIKO-A445-MAH54Mb	AIKO-A450-MAH54Mb	AIKO-A455-MAH54Mb	AIKO-A460-MAH54Mb
Test Conditions	STC	STC	STC	STC	STC	STC
P _{max} [W]	435	440	445	450	455	460
V _{oc} [V]	40.39	40.49	40.59	40.69	40.79	40.89
V _{mp} [V]	33.40	33.50	33.60	33.70	33.80	33.90
I _{sc} [A]	13.80	13.91	14.02	14.12	14.22	14.32
I _{mp} [A]	13.03	13.14	13.25	13.36	13.47	13.57
Module Efficiency	21.8%/22.3%	22.1%/22.5%	22.3%/22.8%	22.6%/23.1%	22.9%/23.3%	23.1%/23.6%

Mechanical Specification

Cell Type	N-Type ABC
Front Cover Mono glass	3.2 mm tempered glass
Frame	Black anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) 1200mm or Customized Length
No. of Cells	108(6*18)
Junction Box	IP68, three bypass diodes
Connector	MC4 EVOA/MC4 EVO2
Weight	21.5/21.2kg±3%
Dimension	1757*1134*30/35/40mm. 1722*1134*30/35/40mm
Package Detail	36pcs per pallet/216 pcs per 20' GP/936pcs 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