

N-Type ABC Dual-glass Module

AIKO-A-MAH54Db

Up to **23.3**% **440W-455W**







Performance Warranty



reddot winner 2023

Full Black Design

No grid lines on the front

Higher Power Output

Higher efficiency: 23.3% Lower degradation: 1 Year ≤1.0%, 2 -30 Year ≤0.35% Better Temperature Coefficient: -0.29%/ °C

Optimized Balance of System (BOS)

Significant savings on mounting structure, cabling, and labour cost

Complete Set of Quality Management System

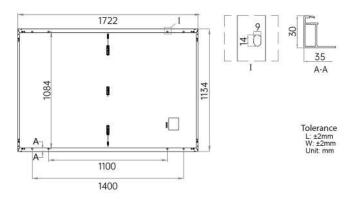
IEC 61730 (2016) IEC 61215 (2021)
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System
ISO 45001:2018 Occupational Safety and Management System





Annual Degradation from Year 2-30





	AIKO-A440-MAH54Db		AIKO-A445-MAH54Db		AIKO-A450-MAH54Db			
Model							AIKO-455	AIKO-455-MAH54Db
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	440	332	445	336	450	339	455	343
V _{oc} [V]	40.05	37.72	40.15	37.82	40.25	37.91	40.35	38.00
V _{mp} [V]	33.69	31.73	33.79	31.83	33.89	31.92	33.99	32.01
I _{sc} [A]	13.54	10.98	13.60	11.03	13.66	11.08	13.72	11.13
I _{mp} [A]	13.07	10.47	13.18	10.56	13.28	10.65	13.39	10.73
Module Efficiency	22.5%		22.8%		23.0%		23.3%	

Cell Type	Mono-crystalline Silicon			
Glass	Dual glass,1.6+1.6mm/2.0+2.0mm coated semi tempered glass			
Frame	Black anodized aluminum			
Cable	4mm²(IEC) 12AWG(UL) 350mm or Customized Length			
No. of Cells	108(6*18)			
Junction Box	IP68, three bypass diodes			
Connector	MC4 compatible			
Weight	21.0/24.0kg±3%			
Dimension	1722*1134*30mm			
Package Detail	36pcs per pallet/216 pcs per 20' GP/936pcs per 40' HC			

Temeprature Ratings (S	TC)				
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				
Fire Rating	IEC Class C				

