

AIKO 445wc extra Full Black NEW génération, avec cellules ABC les plus performantes du marché

Diodes BYpass : gestion de l'ombrage

**GARANTIE
PRODUITS
25 ANS**

**GARANTIE
PRODUCTION
30 ANS**



AIKO

N-Type ABC Neostar Series

AIKO-A-MAH54Db

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

25 Year Product Warranty
30 Year Performance Warranty

Full Black Design
No grid lines on the front

Higher Power Output
Higher efficiency: 23.3%
Lower degradation: 1 year $\leq 1.0\%$, 2-30 year $\leq 0.35\%$
Better temperature coefficient: -0.26%/°C

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

Complete Set of Quality Management System
IEC 61730 (CEM) IEC 61215 (CEM)
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System
ISO 45001:2018 Occupational Safety and Management System
* Product warranty extendable to 25 years, applies to Europe and Australia

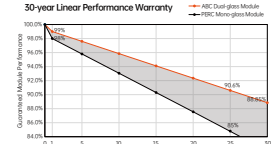
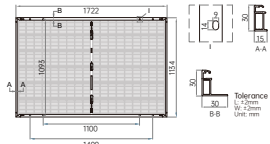
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N-Type ABC Neostar Series

AIKO-A-MAH54Db

455W Output **23.3%** Efficiency **$\leq 1\%$** First-year Degradation **$\leq 0.35\%$** 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)

Model	AIKO-A440-MAH54Db		AIKO-A445-MAH54Db		AIKO-A450-MAH54Db		AIKO-A455-MAH54Db	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	440	552	445	556	450	559	455	545
V_{oc} [V]	40.05	57.72	40.15	57.82	40.25	57.91	40.55	58.00
V_{mp} [V]	35.69	51.75	35.79	51.85	35.89	51.92	35.99	52.01
I_{sc} [A]	15.62	10.98	15.68	11.05	15.74	11.08	15.80	11.15
I_{mp} [A]	15.07	10.47	15.18	10.56	15.28	10.65	15.39	10.75
Module Efficiency	22.5%		22.8%		23.0%		23.5%	

Power Tolerance: 0 ~ +3%

Mechanical Specification

Cell Type	N-Type ABC
Glass	Dual glass, 2.0+2.0mm coated with tempered glass
Frame	Black anodized aluminum
Cable	4mm ² IEC3 12AWG(U.L) 1200mm or Customized Length
No. of Cells	108(6*18)
Junction Box	IP68, three bypass diodes
Connector	MC4 EV02
Weight	24.0kg±5%
Dimension	1722*1154*30mm
Package Detail	36pcs per pallet/216 pcs per 20' GP/956pcs 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

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