AIKO

Neostar

ABC N-Type

Mono-Glass Model



Up to 23.7%
465W-485W

25 year Product Warranty

30 year Performance Warranty

Premium Appearance

No grid lines on the front

Higher Power Output

Higher efficiency: 23.7%
Lower degradation: 1 year≤1.0%, 2 -30 year≤0.35%
Better temperature coefficient: -0.26%/ ℃

Optimized Balance of System (BOS)

Significant savings on mounting structure, cabling, and labour cost

Shading Unique Optimization

Complete Set of Quality Management System

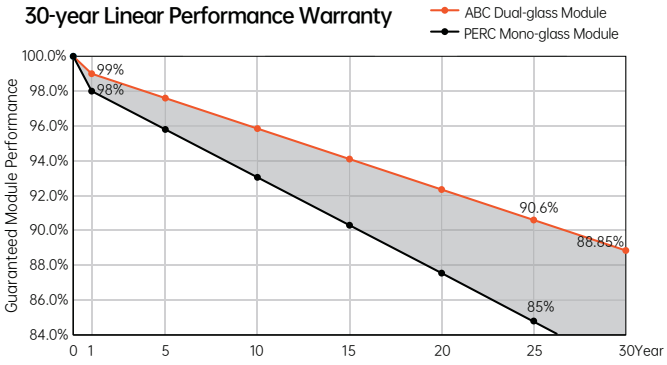
IEC 61730 (2023) IEC 61215 (2021)
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System
ISO 45001:2018 Occupational Safety and Management System
(Made in China)

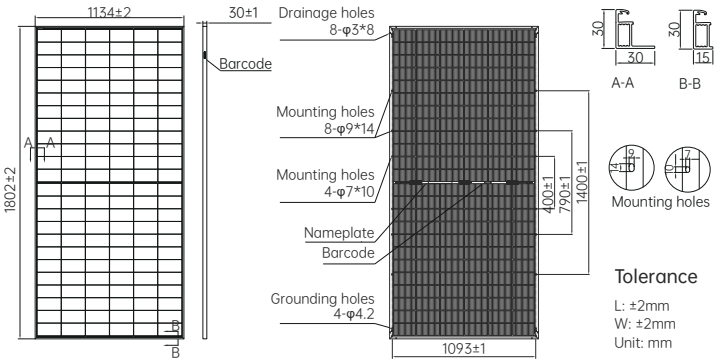
Munich RE CE TÜVRheinland cec

Neostar

AIKO-G-MCH54Mw

485W	23.7%	⩽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%

Model	AIKO-G465-MCH54Mw		AIKO-G470-MCH54Mw		AIKO-G475-MCH54Mw		AIKO-G480-MCH54Mw		AIKO-G485-MCH54Mw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	465	350	470	354	475	358	480	361	485	365
V_{oc} [V]	40.27	38.03	40.37	38.12	40.51	38.26	40.65	38.39	40.79	38.52
V_{mp} [V]	33.38	31.52	33.48	31.61	33.58	31.71	33.68	31.80	33.78	31.90
I_{sc} [A]	14.80	11.97	14.86	12.02	14.93	12.07	15.00	12.13	15.07	12.19
I_{mp} [A]	13.94	11.12	14.05	11.21	14.15	11.29	14.26	11.38	14.37	11.46
Module Efficiency	**22.8%**		**23.0%**		**23.2%**		**23.5%**		**23.7%**	

Mechanical Specification

Cell Type	N-Type ABC
Glass	Mono-Glass,3.2 mm tempered glass
Frame	Anodized aluminum
Cable	4mm²(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	23kg±3%
Dimension	1802*1134*30mm
Package Detail	36pcs per pallet/216 pcs per 20' GP/864pcs per 40' HQ

Temeprature Ratings (STC)

Temperature Coefficient of I_{sc}	+ 0.05%/ ℃
Temperature Coefficient of V_{oc}	- 0.22%/ ℃
Temperature Coefficient of P_{max}	- 0.26%/ ℃

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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