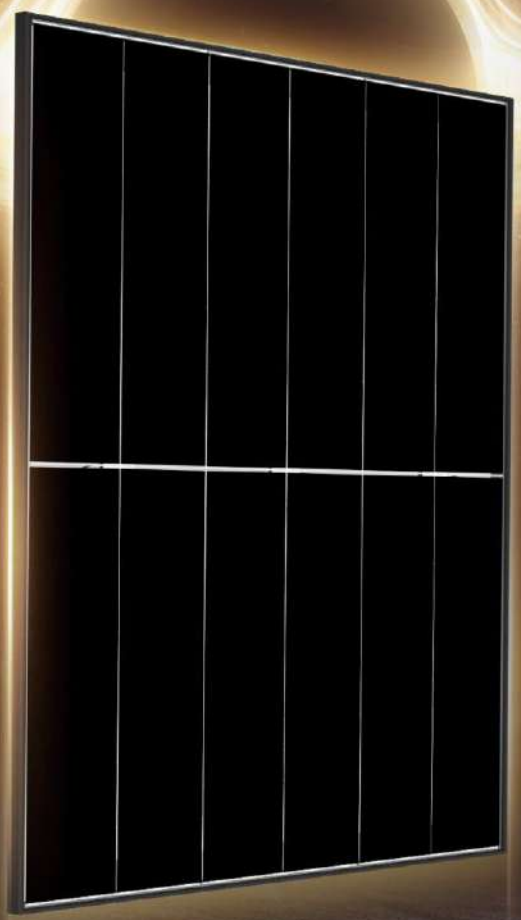
AIKO

NEOSTAR

2P+48 Dual-Glass 465W-495W



Technical Features:

- Partial Shading Optimisation
- Better Temperature Coefficient
- High Temperature Restriction
- Micro-crack Resistance
- Higher Power
- Lower BOS
- More Aesthetic Values
- Zero gap Technology

BloombergNEF TIER 1 PV Modules

ESG TRANSPARENCY AWARD 2023/24

intersolar award 2023 WINNER

reddot winner 2023

Ariel Green

CE

TÜVRheinland

15 year Product Warranty
Extendable to 25years*

30 year Performance Warranty

IEC61215/IEC61730
IEC61701/IEC62716

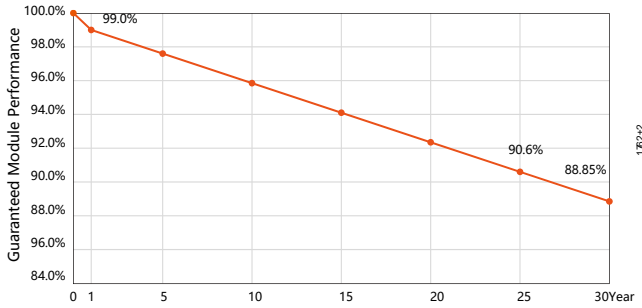
ISO9001:ISO Quality Management System
ISO14001:ISO Environmental Management System
ISO14064:Greenhouse Gas Verification Statement
ISO45001:ISO Occupational Health and Safety Management System

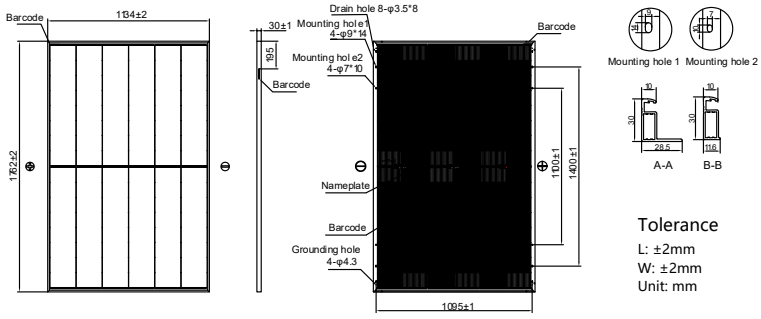
Neostar 2P+48

AIKO-A-GRH48Dw

495W	24.8%	≤1%	≤0.35%
Output	Efficiency	First-year Degradation	Annual Degradation from Year 2-30

30-year Linear Performance Warranty





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

Power Tolerance:0~ + 3%

Module Type	AIKO-A465-GRH48Dw			AIKO-A470-GRH48Dw			AIKO-A475-GRH48Dw			AIKO-A480-GRH48Dw			AIKO-A485-GRH48Dw			AIKO-A490-GRH48Dw			AIKO-A495-GRH48Dw		
Test Conditions	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P_{max} [W]	465	357	500	470	361	505	475	365	510	480	369	515	485	373	520	490	377	525	495	381	530
V_{oc} [V]	34.80	32.71	34.80	35.00	32.90	35.00	35.19	33.08	35.19	35.33	33.21	35.33	35.57	33.44	35.57	35.72	33.58	35.72	35.86	33.71	35.86
V_{mp} [V]	30.55	28.68	30.50	30.74	28.86	30.66	30.90	29.02	30.81	31.05	29.15	30.93	31.19	29.27	31.06	31.35	29.44	31.19	31.51	29.58	31.34
I_{sc} [A]	16.33	13.12	17.65	16.43	13.20	17.76	16.52	13.27	17.86	16.63	13.36	17.98	16.71	13.42	18.07	16.79	13.49	18.16	16.90	13.58	18.28
I_{mp} [A]	15.22	12.45	16.39	15.29	12.51	16.47	15.37	12.58	16.55	15.46	12.66	16.65	15.55	12.74	16.74	15.63	12.81	16.83	15.71	12.88	16.91
Module Efficiency	23.3%			23.5%			23.8%			24.0%			24.3%			24.5%			24.8%		

Product Specification

Bifacial Factor	80±5%
Cell Type	N-Type ABC
Front Cover	2.0mm coated semi tempered glass
Rear Cover	2.0mm semi tempered glass
Frame	Black anodized aluminum
Cable	4mm²(IEC) 12AWG(UL) ±1200mm
No. of Cells	96(6*16)
Junction Box	IP68, 3 bypass diodes
Connector	Original MC4-EVO2A
Weight	24.1kg±3%
Dimension	1762*1134*30mm
Package Detail	37pcs per pallet / 222pcs per 20'GP / 962pcs per 40'HC

Temperature Ratings (STC)

Temperature Coefficient of I_{sc}	+ 0.05%/ ℃
Temperature Coefficient of V_{oc}	- 0.22%/ ℃
Temperature Coefficient of P_{max}	- 0.26%/ ℃
NOCT(Nominal Operating Cell Temperature)	45℃ (±2℃)

Installation Guide

Operation Temperature	-40℃ - +70℃
Maximum Series Fuse Rating	30A
Protection Class	ClassⅡ
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 A

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*AIKO reserves right to update the specification without notice
*Optional Ariel Green coverage is available upon request
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