AIKO

NEOSTAR

Draft

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

BloombergNEF TIER 1 PV Modules

ESG TRANSPARENCY AWARD 2023/24 EXCELLENCE

inter solar award 2023 WINNER

reddot winner 2023

Warranty partner

Munich RE

CE

TÜVRheinland

15 year Product Warranty
Extendable to 25years*

30 year Performance Warranty

IEC61215/IEC61730
IEC61701/IEC62716

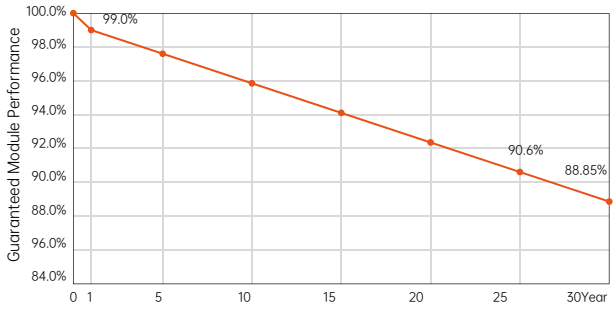
ISO9001:ISO Quality Management System
ISO14001:ISO Environmental Management System
ISO14064:Greenhouse Gas Verification Statement
ISO45001:ISO Occupational Health and Safety Management System

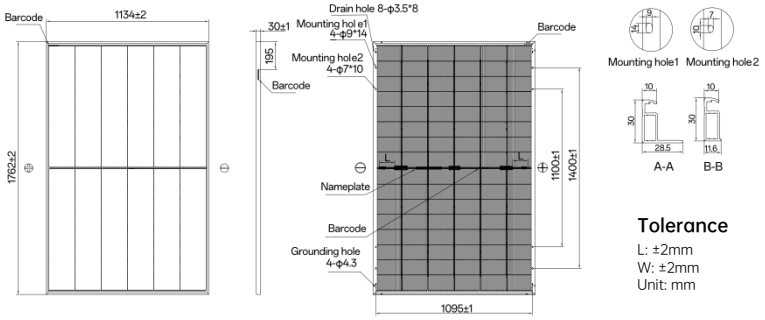
Neostar 2P+48

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





Tolerance
L: ±2mm
W: ±2mm
Unit: mm

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	501	470	361	506	475	365	512	480	369	517	485	373	522	490	377	528	495	381	533
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]	29.64	27.83	29.64	29.80	27.98	29.80	29.97	28.14	29.97	30.11	28.27	30.11	30.27	28.42	30.27	30.42	28.56	30.42	30.56	28.69	30.56
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]	15.69	12.83	16.90	15.77	12.90	16.99	15.85	12.97	17.07	15.94	13.05	17.17	16.02	13.13	17.25	16.11	13.20	17.35	16.20	13.28	17.44
Module Efficiency	**23.3%**			**23.5%**			**23.8%**			**24.0%**			**24.3%**			**24.5%**			**24.8%**		

Product Specification

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%/ ℃

Installation Guide

Operation Temperature	-40℃ - +70℃
Maximum Series Fuse Rating	30A
Protection Class	Class II
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 Munich Re coverage is available upon request

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