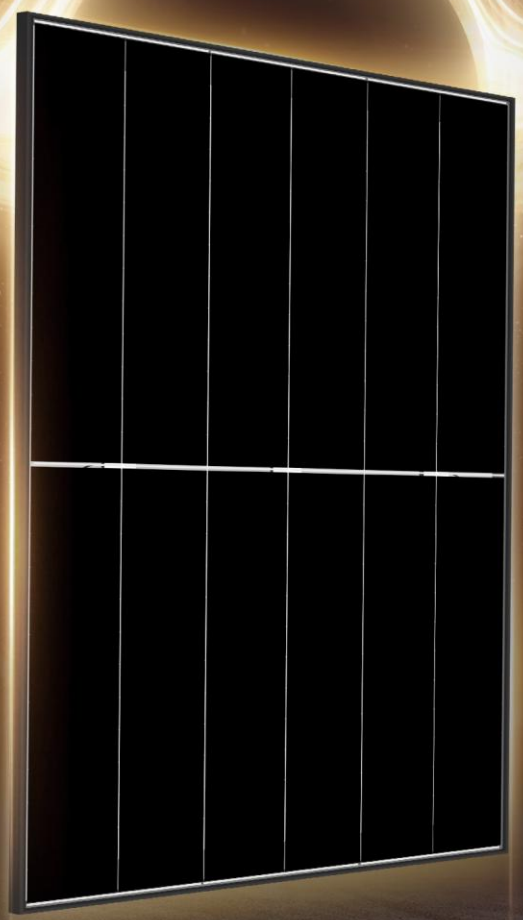
AIKO

NEOSTAR

Draft

2P+48w Dual-Glass mono-facial

485W-500W



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

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

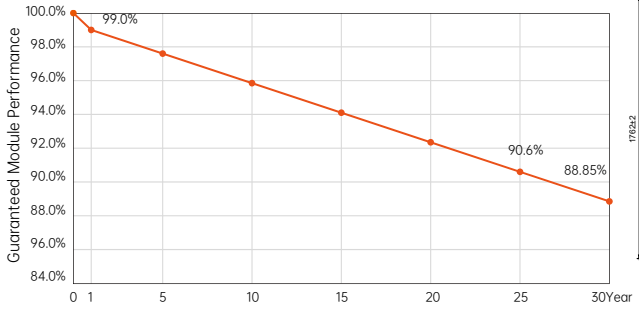
ISO9001:ISO Quality Management System
ISO14001:ISO Environmental Management System
ISO14064:Greenhouse Gas Verification Statement
ISO45001:ISO Occupational Health and Safety Management System

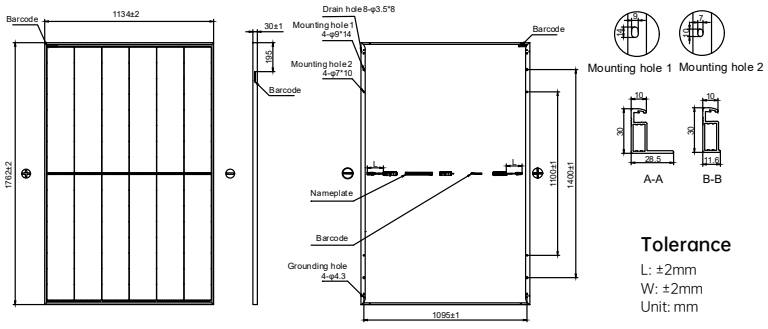
Neostar 2P+48w

AIKO-A-GRH48Dw

500W	25.0%	≤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-A485-GRH48Dw		AIKO-A490-GRH48Dw		AIKO-A495-GRH48Dw		AIKO-A500-GRH48Dw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	485	373	490	377	495	381	500	385
V_{oc} [V]	35.57	33.44	35.72	33.58	35.86	33.71	36.04	33.90
V_{mp} [V]	30.27	28.42	30.42	28.56	30.56	28.69	30.71	28.84
I_{sc} [A]	16.71	13.42	16.79	13.49	16.90	13.58	16.98	13.65
I_{mp} [A]	16.02	13.13	16.11	13.20	16.20	13.28	16.28	13.36
Module Efficiency	**24.3%**		**24.5%**		**24.8%**		**25.0%**	

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	24.2kg±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	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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