AIKO

NEOSTAR

2S+60 Dual-Glass Module

500W-520W



Technical Features:

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

TIER 1 BloombergNEF

ESG Transparency Award 2023/24

Intersolar award 2023 WINNER

reddot winner 2023

25 year Product Warranty

30 year Performance Warranty

CE

TÜVRheinland

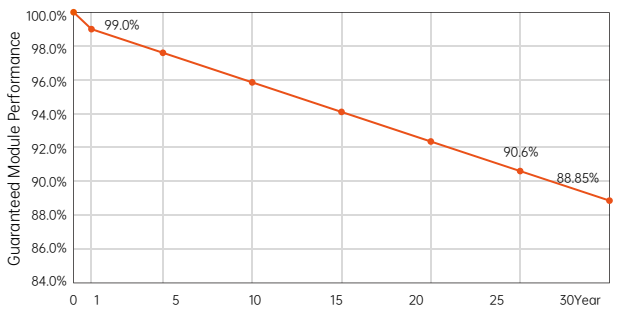
Made in China

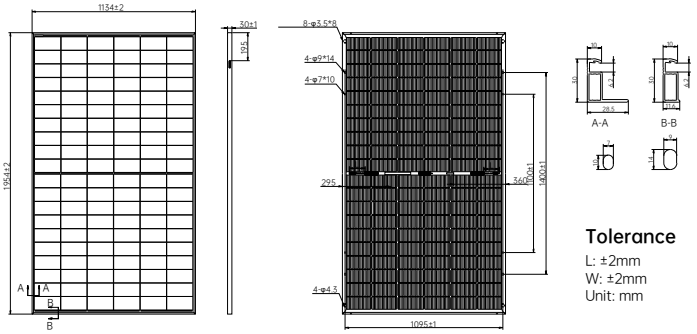
Neostar 2S+60

AIKO-Axxx-MAH60Db

520W	23.5%	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℃ BNPI: AM1.5, front 1000W/m2 , rear 135W/m2, 25℃)

φVoc=97%±5% φIsc=42%±5% φPmax=39%±5%
Power Binning Tolerance: 0~ + 3%

Module Type	AIKO-A500-MAH60Db		AIKO-A505-MAH60Db		AIKO-A510-MAH60Db		AIKO-A515-MAH60Db		AIKO-A520-MAH60Db	
Test Conditions	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Pmax [W]	500	525	505	530	510	535	515	540	520	545
Voc [V]	45.02	45.02	45.12	45.12	45.22	45.22	45.32	45.32	45.42	45.42
Vmp [V]	37.90	37.90	38.00	38.00	38.10	38.10	38.20	38.20	38.30	38.30
Isc [A]	14.05	14.84	14.11	14.91	14.17	14.98	14.23	15.05	14.29	15.12
Imp [A]	13.20	13.86	13.30	13.95	13.39	14.05	13.49	14.14	13.58	14.23
Module Efficiency	**22.6%**		**22.8%**		**23.0%**		**23.2%**		**23.5%**	

Electrical characteristics with different power bin (reference to 5% & 10% backside power gain)

Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Pmax [W]	525	550	530	556	536	561	541	567	546	572
Voc [V]	45.02	45.02	45.12	45.12	45.22	45.22	45.32	45.32	45.42	45.42
Vmp [V]	37.90	37.90	38.00	38.00	38.10	38.10	38.20	38.20	38.30	38.30
Isc [A]	14.75	15.46	14.82	15.52	14.88	15.59	14.94	15.65	15.00	15.72
Imp [A]	13.86	14.52	13.97	14.63	14.06	14.73	14.16	14.84	14.26	14.94

Product Specification

Cell Type	N-Type ABC
Glass	Dual glass,2.0+2.0mm coated semi tempered glass
Frame	Black Anodized aluminum
Cable	4mm²(IEC) 12AWG(UL) ±1200mm
No. of Cells	120(6*20)
Junction Box	IP68, 3 bypass diodes
Connector	PV-KST4-EVO 2A/6I/ PV-KBT4-EVO 2A/6I from Staubli ElectricalConnectors AG
Weight	26.5kg±3%
Dimension	1954*1134*30mm
Package Detail	37pcs per pallet / 185pcs per 20'GP / 888pcs per 40'HC

Temperature Ratings (STC)

Temperature Coefficient of Isc	+ 0.05%/ ℃
Temperature Coefficient of Voc	- 0.22%/ ℃
Temperature Coefficient of Pmax	- 0.26%/ ℃

Installation Guide

T_{98} max	70℃
Module Operation Temperature	-40℃ - +85℃
Maximum Series Fuse Rating	25A
Protection Class	Class II
P_{max} and 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 A

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*AIKO reserves right to update the specification without notice

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* AU market only