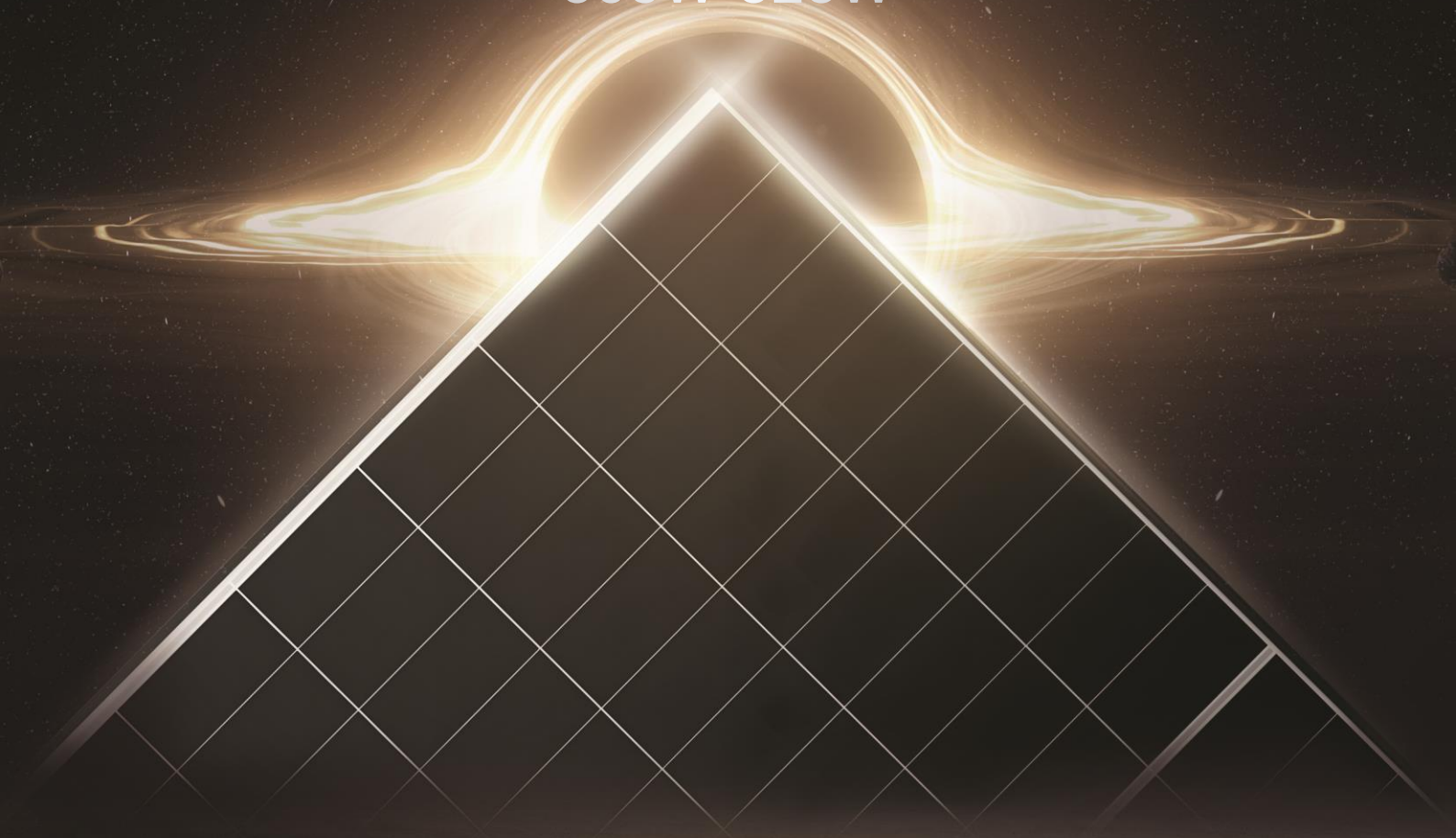
AIKO

NEOSTAR

2P Mono-Glass Module

505W-525W



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 Excellence

inter solar award 2023 WINNER

reddot winner 2023

15 year Product Warranty Extendable to 25years*

30 year Performance Warranty

CE

TÜVRheinland

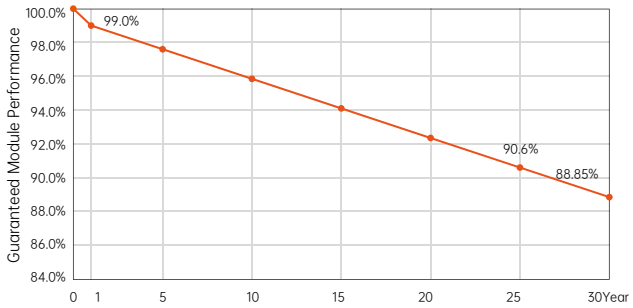
Munich RE

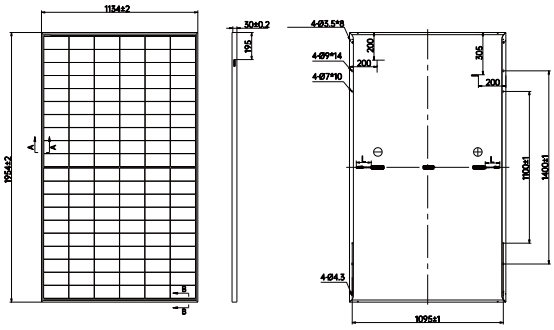
Neostar 2P

AIKO-A-MAH60Mw

525W	23.7%	≤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-A505-MAH60Mw		AIKO-A510-MAH60Mw		AIKO-A515-MAH60Mw		AIKO-A520-MAH60Mw		AIKO-A525-MAH60Mw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Pmax [W]	505	383	510	386	515	390	520	394	525	398
Voc [V]	45.12	42.80	45.22	42.90	45.32	42.99	45.42	43.09	45.52	43.18
Vmp [V]	38.00	36.05	38.10	36.15	38.20	36.24	38.30	36.34	38.40	36.43
Isc [A]	14.11	11.40	14.17	11.45	14.23	11.49	14.29	11.54	14.35	11.59
Imp [A]	13.30	10.63	13.39	10.70	13.49	10.78	13.58	10.86	13.68	10.93
Module Efficiency	**22.8%**		**23.0%**		**23.2%**		**23.5%**		**23.7%**	

Product Specification

Cell Type	N-Type ABC
Glass	3.2 mm tempered glass
Backsheet	High weather resistant backsheet
Frame	Black Anodized aluminum
Cable	4mm²(IEC))± 12AWG(UL) 1200mm/+350mm,-280mm
No. of Cells	120(6*20)
Junction Box	IP68, 3 bypass diodes
Connector	MC4-Evo2
Weight	23.1kg±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%/ °C
Temperature Coefficient of Voc	- 0.22%/ °C
Temperature Coefficient of Pmax	- 0.26%/ °C

Installation Guide

Operation Temperature	-40℃ - +85℃
Maximum Series Fuse Rating	25A
Protection Class	ClassII
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	40 mm diameter hail at 23 m/s
Fire Rating	IEC Class C

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*AIKO reserves right to update the specification without notice

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