AIKO

Neostar 2S Mono-Glass Module

500W-520W



Second Generation Comprehensive Upgrade:

- **Partial Shading Optimisation**
- **Better Temperature Coefficient**
- **High Temperature Restriction**
- **Micro-crack Resistance**

- Higher Power
- Lower BOS
- Full Black Design

25 year Product Warranty

30 year Performance Warranty

reddot winner 2023

Complete Set of Quality Management System

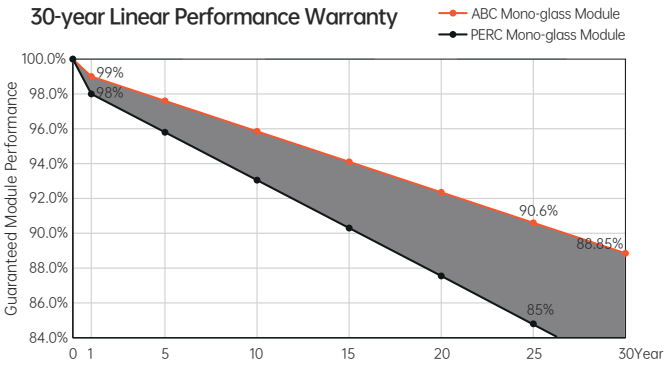
IEC 61730 (2023) IEC 61215 (2021)
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System
ISO 45001:2018 Occupational Safety and Management System
(Made in China)

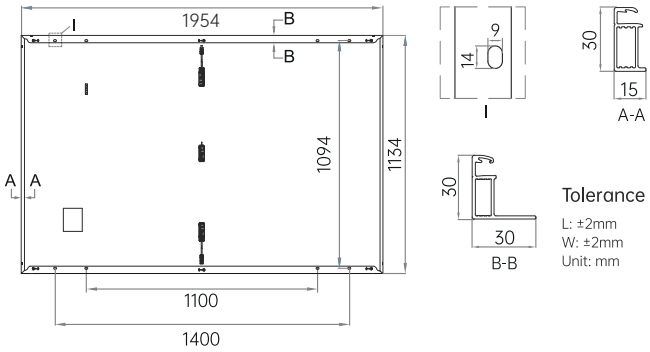
Munich RE CE TÜVRheinland CEC

Neostar 2S

AIKO-A-MAH60Mb

520W	23.5%	⩽1%	⩽0.35%
Output	Efficiency	First-year Degradation	Annual Degradation from Year 2-30





Electrical Characteristics (STC: AM1.5 1000W/m² 25℃ NOCT: AM1.5 800W/m² 20℃ 1m/s) Power Sorting Tolerance:0~ + 3%

Module Type	AIKO-A500-MAH60Mb		AIKO-A505-MAH60Mb		AIKO-A510-MAH60Mb		AIKO-A515-MAH60Mb		AIKO-A520-MAH60Mb	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	500	379	505	383	510	386	515	390	520	394
V_{oc} [V]	45.02	42.71	45.12	42.80	45.22	42.90	45.32	42.99	45.42	43.09
V_{mp} [V]	37.90	35.96	38.00	36.05	38.10	36.15	38.20	36.24	38.30	36.34
I_{sc} [A]	14.05	11.35	14.11	11.40	14.17	11.45	14.23	11.49	14.29	11.54
I_{mp} [A]	13.20	10.55	13.30	10.63	13.39	10.70	13.49	10.78	13.58	10.86
Module Efficiency	**22.6%**		**22.8%**		**23.0%**		**23.2%**		**23.5%**	

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
No. of cells	120(6*20)
Junction Box	IP68，3 bypass diodes
Connector	Staubli EVO2
Weight	24.0Kg±3%
Weight	1954*1134*30mm
Package Detail	36pcs per pallet /180pcs per 20GP/ 864pcs per 40HC

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℃-+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	+5400Pa/-2400Pa
Hail Test	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class C

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*AIKO Energy reserves right to update the specification without notice

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