



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**



Product
Warranty



Performance
Warranty



reddot winner 2023

Complete Set of Quality Management System

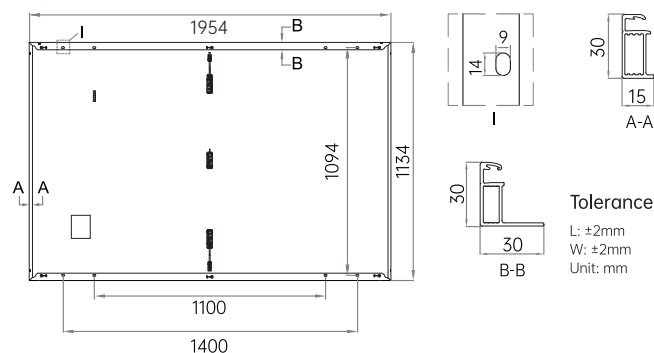
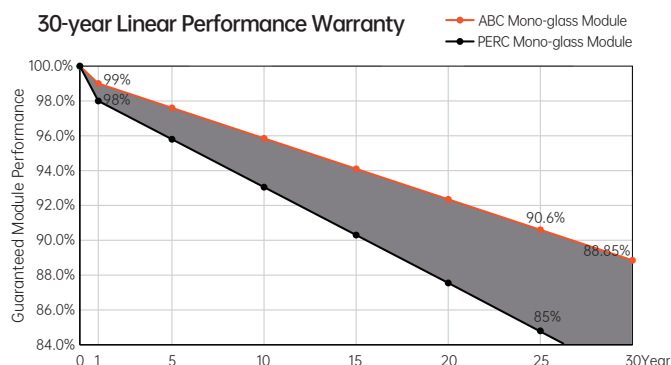
IEC 61730 (2023) IEC 61215 (2021)
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System
ISO 45001:2018 Occupational Safety and Management System
(Made in China)



520W
Output

23.5%
Efficiency

 $\leq 1\%$
First-year Degradation

 $\leq 0.35\%$
Annual Degradation from Year 2-30

Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 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	4mm ² (IEC) 12AWG(UL) 1200mm
No. of cells	120(6*20)
Junction Box	IP68, 3 bypass diodes
Connector	Staubli EVO2
Weight	24.0Kg $\pm$ 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%/ °C
Temperature Coefficient of V_{oc}	- 0.22%/ °C
Temperature Coefficient of $P_{\max}$	- 0.26%/ °C

Installation Guide

Operation Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
$P_{\max}$ and V_{oc} and I_{sc} Tolerance	$\pm 3\%$
Maximum System Voltage	DC1500V
Maximum Static Loading	+5400Pa/-2400Pa
Hail Test	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class C

