




# 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)

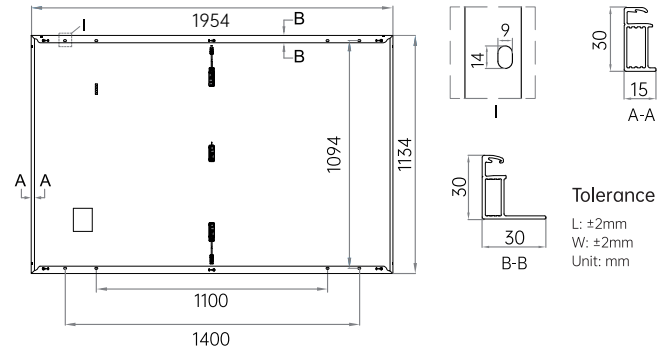
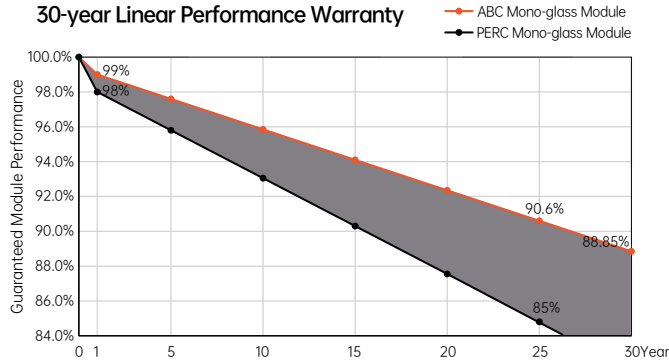


**520W**  
Output

**23.5%**  
Efficiency

**≤1%**  
First-year Degradation

**≤0.35%**  
Annual Degradation from Year 2-30



### Electrical Characteristics (STC: AM1.5 1000W/m<sup>2</sup> 25°C NOCT: AM1.5 800W/m<sup>2</sup> 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	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P <sub>max</sub> [W]	500	379	505	383	510	386	515	390	520	394
V <sub>oc</sub> [V]	45.02	42.71	45.12	42.80	45.22	42.90	45.32	42.99	45.42	43.09
V <sub>mp</sub> [V]	37.90	35.96	38.00	36.05	38.10	36.15	38.20	36.24	38.30	36.34
I <sub>sc</sub> [A]	14.05	11.35	14.11	11.40	14.17	11.45	14.23	11.49	14.29	11.54
I <sub>mp</sub> [A]	13.20	10.55	13.30	10.63	13.39	10.70	13.49	10.78	13.58	10.86
<b>Module Efficiency</b>	<b>22.6%</b>		<b>22.8%</b>		<b>23.0%</b>		<b>23.2%</b>		<b>23.5%</b>	

### Product Specification

Cell type	N-Type ABC
Glass	3.2 mm tempered glass
Backsheet	High weather resistant backsheet
Frame	Black anodized aluminum
Cable	4mm <sup>2</sup> (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 <sub>sc</sub>	+ 0.05%/ °C
Temperature Coefficient of V <sub>oc</sub>	- 0.22%/ °C
Temperature Coefficient of P <sub>max</sub>	- 0.26%/ °C

### Installation Guide

Operation Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
P <sub>max</sub> and V <sub>oc</sub> and I <sub>sc</sub> 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

