


# NEOSTAR

2S+ 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



red dot winner 2023



Product  
Warranty



Performance  
Warranty



Munich RE 

**520W**

Output

**23.5%**

Efficiency

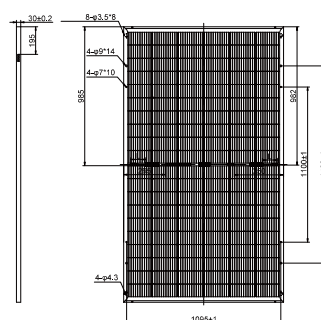
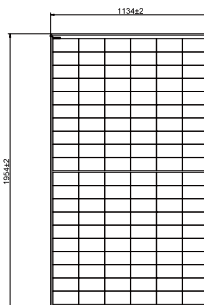
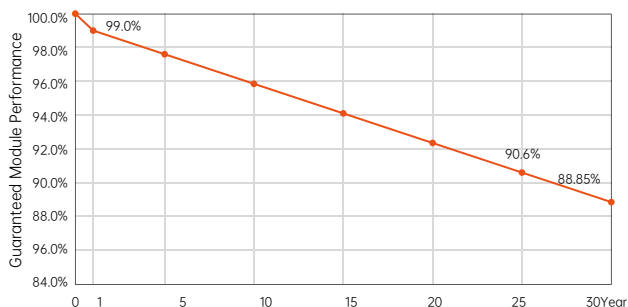
**≤1%**

First-year Degradation

**≤0.35%**

Annual Degradation from Year 2-30

**30-year Linear Performance Warranty**



**Tolerance**  
L: ±2mm  
W: ±2mm  
Unit: mm

**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 Tolerance: 0~ + 3%

Module Type	AIKO-A500-MAH60Db		AIKO-A505-MAH60Db		AIKO-A510-MAH60Db		AIKO-A515-MAH60Db		AIKO-A520-MAH60Db	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Conditions	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]	13.21	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	Dual glass, 2.0 + 2.0mm coated semi tempered glass
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	MC4-Evo2
Weight	27.2Kg±3%
Dimension	1954*1134*30mm
Package Detail	37pcs per pallet / 185pcs per 20'GP / 888pcs per 40'HC

**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	ClassII
V <sub>oc</sub> and I <sub>sc</sub> 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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