








# NEOSTAR

2S+60 Dual-Glass Module  
495W-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



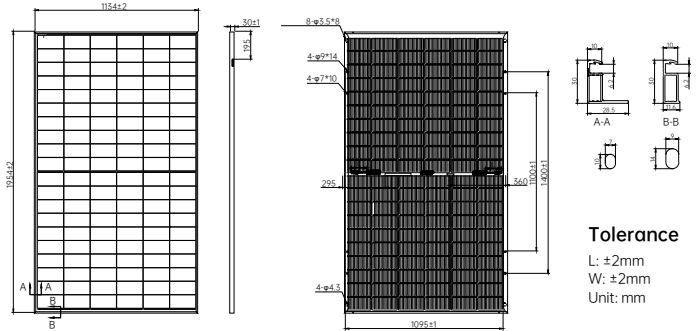
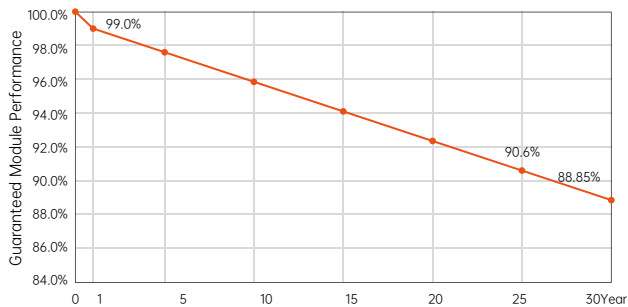
**520W**  
Output

**23.5%**  
Efficiency

**≤1%**  
First-year Degradation

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

### 30-year Linear Performance Warranty



### 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-A495-MAH60Db		AIKO-A500-MAH60Db		AIKO-A505-MAH60Db		AIKO-A510-MAH60Db		AIKO-A515-MAH60Db		AIKO-A520-MAH60Db	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P <sub>max</sub> [W]	495	375	500	379	505	383	510	386	515	390	520	394
V <sub>oc</sub> [V]	44.92	42.61	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]	37.80	35.86	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]	13.99	11.30	14.05	11.34	14.11	11.40	14.17	11.45	14.23	11.49	14.29	11.54
I <sub>mp</sub> [A]	13.10	10.47	13.21	10.55	13.30	10.63	13.39	10.70	13.49	10.78	13.58	10.86
Module Efficiency	<b>22.3%</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	Original MC4
Weight	26.5kg±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	Class II
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

