

# NEOSTAR

2P+ Dual-Glass Module  
455W-475W

## Technical Features:

-  Partial Shading Optimisation
-  Better Temperature Coefficient
-  High Temperature Restriction
-  Micro-crack Resistance
-  Higher Power
-  Lower BOS
-  More Aesthetic Values
-  PFAS-free



reddot winner 2023



Product Warranty  
Extendable to 25years\*



Performance Warranty



Warranty partner

Munich RE 

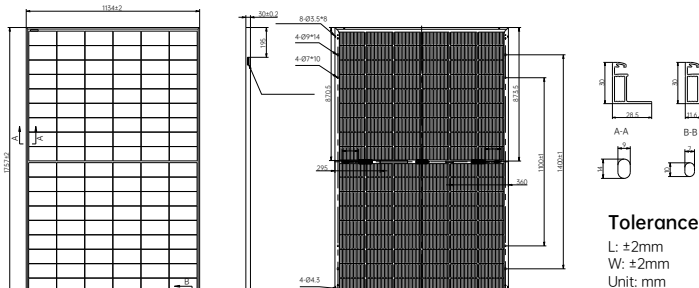
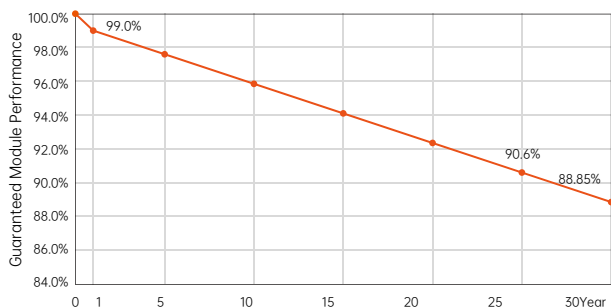
**475W**  
Output

**23.8%**  
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-A455-MAH54Dw		AIKO-A460-MAH54Dw		AIKO-A465-MAH54Dw		AIKO-A470-MAH54Dw		AIKO-A475-MAH54Dw	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P <sub>max</sub> [W]	455	343	460	346	465	350	470	354	475	358
V <sub>oc</sub> [V]	41.00	38.72	41.06	38.77	41.12	38.83	41.18	38.89	41.24	38.94
V <sub>mp</sub> [V]	34.56	32.64	34.62	32.69	34.68	32.75	34.74	32.81	34.80	32.86
I <sub>sc</sub> [A]	14.22	11.50	14.25	11.52	14.29	11.55	14.32	11.58	14.35	11.60
I <sub>mp</sub> [A]	13.17	10.32	13.29	10.41	13.41	10.51	13.54	10.61	13.66	10.71
<b>Module Efficiency</b>	<b>22.8%</b>		<b>23.1%</b>		<b>23.3%</b>		<b>23.6%</b>		<b>23.8%</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	108(6*18)
Junction Box	IP68, 3 bypass diodes
Connector	Original MC4-EVO2A
Weight	24.2kg±3%
Dimension	1757*1134*30mm
Package Detail	37pcs per pallet / 222pcs per 20'GP / 962pcs 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



www.aikosolar.com  
marketing@aikosolar.com

\*AIKO reserves right to update the specification without notice  
\*Optional Munich Re coverage is available upon request  
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