





# Neostar 2P Mono-Glass Module

## 450W-475W

Second Generation  
Comprehensive Upgrade:

 **Partial Shading Optimisation**


 **Better Temperature Coefficient**

 **High Temperature Restriction**

 **Micro-crack Resistance**

 **Higher Power**

 **Lower BOS**

 **No Front Grid 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)



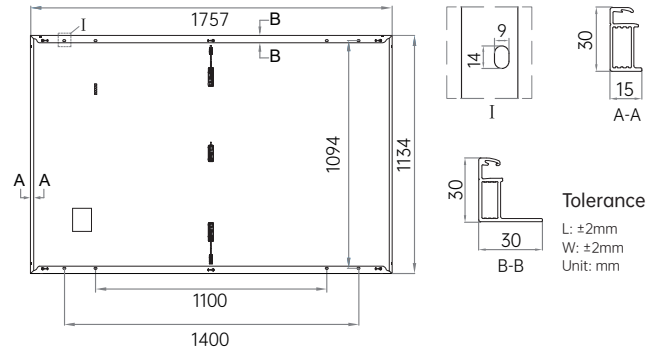
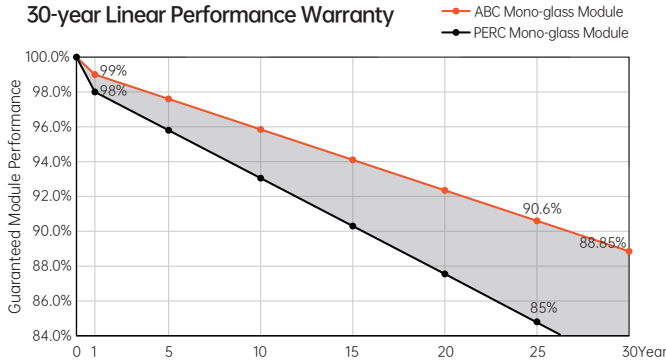
**475W**  
Output

**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 Sorting Tolerance: 0~ +3%

Model	AIKO-A450-MAH54Mw		AIKO-A455-MAH54Mw		AIKO-A460-MAH54Mw		AIKO-A465-MAH54Mw		AIKO-A470-MAH54Mw		AIKO-A475-MAH54Mw	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
$P_{max}$ [W]	450	339	455	343	460	346	465	350	470	354	475	358
$V_{oc}$ [V]	40.94	38.66	41.00	38.72	41.06	38.77	41.12	38.83	41.18	38.89	41.24	38.94
$V_{mp}$ [V]	34.50	32.58	34.56	32.64	34.62	32.69	34.68	32.75	34.74	32.81	34.80	32.86
$I_{sc}$ [A]	14.12	11.42	14.22	11.50	14.25	11.61	14.29	11.55	14.32	11.58	14.35	11.60
$I_{mp}$ [A]	13.05	10.41	13.17	10.51	13.29	10.41	13.41	10.71	13.54	10.80	13.66	10.90
<b>Module Efficiency</b>	<b>22.6%</b>		<b>22.8%</b>		<b>23.1%</b>		<b>23.3%</b>		<b>23.6%</b>		<b>23.8%</b>	

### Mechanical Specification

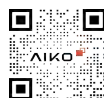
Cell Type	N-Type ABC
Front Cover Mono glass	3.2mm tempered glass
Frame	Black anodized aluminum
Cable	4mm <sup>2</sup> (IEC) 12AWG(UL) 1200mm or Customized Length
No. of Cells	108(6*18)
Junction Box	IP68,3 bypass diodes
Connector	Staubli EVO2
Weight	21.5kg±3%
Dimension	1757*1134*30mm
Package Detail	36pcs per pallet/216 pcs per 20' GP/936pcs per 40' HQ

### 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	±3%
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	40 mm diameter hail at 27.5 m/s
Fire Rating	IEC Class C



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\*AIKO Energy reserves right to update the specification without notice  
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