

# NEOSTAR

3P+54 Dual-Glass Module

470W-485W

## Technical Features:

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



red dot winner 2023



Product Warranty



Performance Warranty



Warranty partner

Munich RE 

Made in China

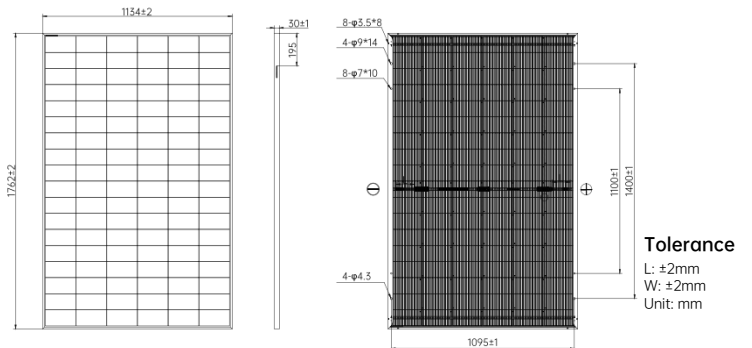
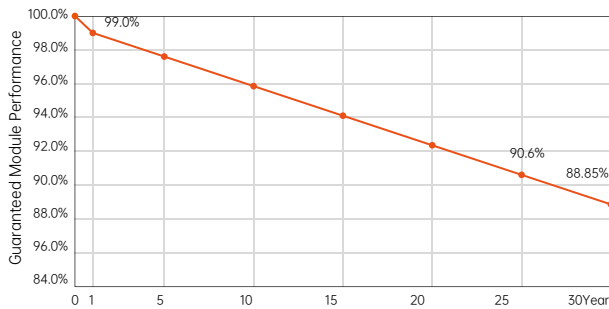
**485W**  
Output

**24.3%**  
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		BNPI: AM1.5, front 1000W/m <sup>2</sup> , rear 135W/m <sup>2</sup> , 25°C		φVoc=98% ±5% φIsc=45% ±5% φPmax=40%±5%		Power Binning Tolerance: 0~3%	
	Module Type	AIKO-A470-MCE54Dw	AIKO-A475-MCE54Dw	AIKO-A480-MCE54Dw	AIKO-A485-MCE54Dw	AIKO-A485-MCE54Dw	AIKO-A485-MCE54Dw	AIKO-A485-MCE54Dw
Test Conditions	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Pmax [W]	470	495	475	500	480	505	485	510
Voc [V]	40.70	40.70	40.80	40.80	40.90	40.90	41.00	41.00
Vmp [V]	34.30	34.30	34.40	34.40	34.50	34.50	34.60	34.60
Isc [A]	14.72	15.52	14.76	15.56	14.80	15.60	14.84	15.64
Imp [A]	13.71	14.44	13.81	14.54	13.92	14.64	14.02	14.75
<b>Module Efficiency</b>	<b>23.5%</b>		<b>23.8%</b>		<b>24.0%</b>		<b>24.3%</b>	

Electrical characteristics with different power bin (reference to 5% & 10% backside power gain)								
Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%
Pmax [W]	494	517	499	523	504	528	509	534
Voc [V]	40.70	40.70	40.80	40.80	40.90	40.90	41.00	41.00
Vmp [V]	34.30	34.30	34.40	34.40	34.50	34.50	34.60	34.60
Isc [A]	15.46	16.19	15.50	16.24	15.54	16.28	15.58	16.32
Imp [A]	14.40	15.08	14.50	15.19	14.62	15.31	14.72	15.42

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	PV-KST4-EVO 2A/6I/ PV-KBT4-EVO 2A/6I from Staubli ElectricalConnectors AG
Weight	24.2kg±3%
Dimension	1762*1134*30mm
Package Detail	37pcs per pallet / 222pcs per 20'GP / 962pcs per 40'HC

Temperature Ratings (STC)	
Temperature Coefficient of Isc	+ 0.05%/ °C
Temperature Coefficient of Voc	- 0.22%/ °C
Temperature Coefficient of Pmax	- 0.26%/ °C

Installation Guide	
T <sub>98</sub> max	70°C
Module Operation Temperature	-40°C - +85°C
Maximum Series Fuse Rating	30A
Protection Class	Class II
Pmax and Voc and Isc 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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\*AU version only