



# NEOSTAR

3S+54 Dual-glass Module  
460W-485W

## Technical Features:

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



reddot winner 2023




Product  
Warranty



Performance  
Warranty



Munich RE 

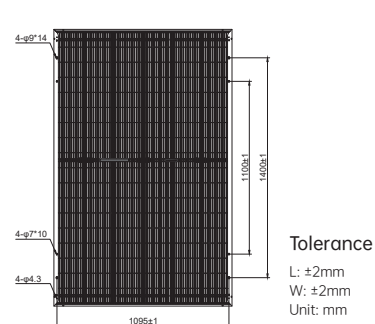
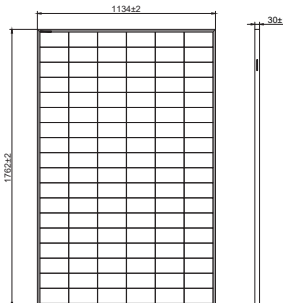
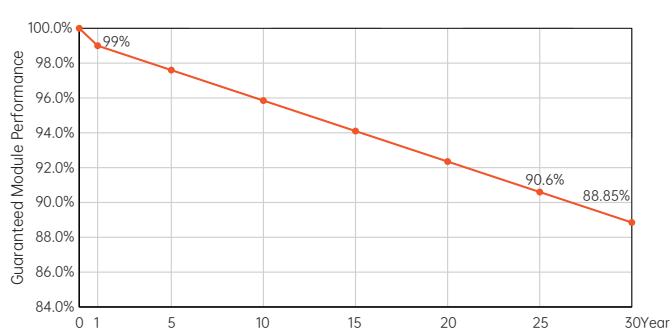
**485W**  
Output

**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 NOCT: AM1.5 800W/m<sup>2</sup> 20°C 1m/s) Power Tolerance: 0~ + 3%

Module Type	AIKO-A460-MCE54Db		AIKO-A465-MCE54Db		AIKO-A470-MCE54Db		AIKO-A475-MCE54Db		AIKO-A480-MCE54Db		AIKO-A485-MCE54Db	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P <sub>max</sub> [W]	460	349	465	352	470	356	475	360	480	364	485	367
V <sub>oc</sub> [V]	40.40	38.33	40.50	38.42	40.60	38.52	40.70	38.61	40.80	38.71	40.90	38.80
V <sub>mp</sub> [V]	33.80	31.07	33.90	32.16	34.00	32.26	34.10	32.35	34.20	32.45	34.30	32.54
I <sub>sc</sub> [A]	14.58	11.78	14.64	11.83	14.70	11.88	14.76	11.93	14.82	11.97	14.88	12.02
I <sub>mp</sub> [A]	13.62	10.89	13.72	10.97	13.83	11.05	13.94	11.14	14.04	11.22	14.15	11.31
<b>Module Efficiency</b>	<b>23.0%</b>		<b>23.3%</b>		<b>23.5%</b>		<b>23.8%</b>		<b>24.0%</b>		<b>24.3%</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	MC4-Evo2
Weight	24.5kg±3%
Dimension	1762*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
Maximum System Voltage	DC1500V
Maximum Static Loading	+5400Pa/-2400Pa
Hail Test	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class C

