AIKO

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

ESG

solar award 2023 WINNER

reddot winner 2023

25 year Product Warranty

30 year Performance Warranty

CE

TÜVRheinland

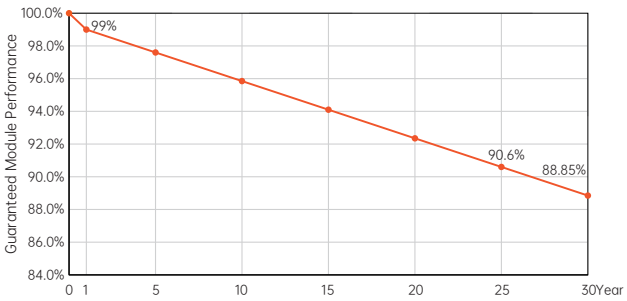
Munich RE

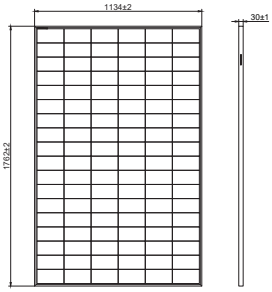
Neostar 3S+54

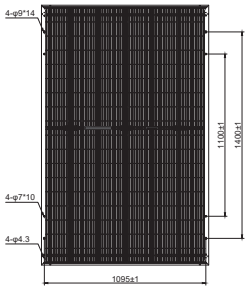
AIKO-A-MCE54Db

485W	24.3%	⩽1%	⩽0.35%
Output	Efficiency	First-year Degradation	Annual Degradation from Year 2-30

30-year Linear Performance Warranty







Tolerance

L: ±2mm
W: ±2mm
Unit: mm

Electrical Characteristics (STC: AM1.5 1000W/m² 25℃ NOCT: AM1.5 800W/m² 20℃ 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	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	460	349	465	352	470	356	475	360	480	364	485	367
V_{oc} [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_{mp} [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_{sc} [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_{mp} [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
Module Efficiency	**23.0%**		**23.3%**		**23.5%**		**23.8%**		**24.0%**		**24.3%**	

Product Specification

Cell type	N-Type ABC
Glass	Dual glass，2.0+2.0mm coated semi-tempered glass
Frame	Black anodized aluminum
Cable	4mm²(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_{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℃ - +85℃
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

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*AIKO reserves right to update the specification without notice

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