AIKO

NEOSTAR

3S+54 Dual-Glass Module

460W-475W



Technical Features:

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

BloombergNEF TIER 1 PV Modules

ESG TRANSPARENCY AWARD 2023/24 EXCELLENCE

inter solar award 2023 WINNER

reddot winner 2023

Ariel Green

CE

TÜVRheinland

25 year Product Warranty

30 year Performance Warranty

IEC61215/IEC61730
IEC61701/IEC62716

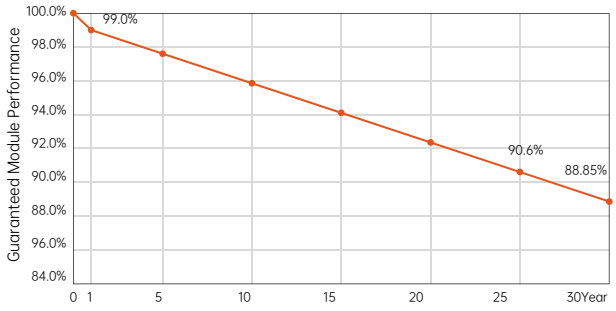
ISO9001:ISO Quality Management System
ISO14001:ISO Environmental Management System
ISO14064:Greenhouse Gas Verification Statement
ISO45001:ISO Occupational Health and Safety Management System

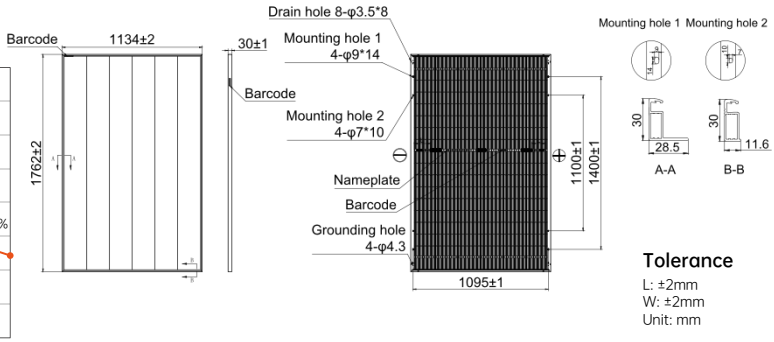
Neostar 3S+54

AIKO-A-MCE54Db

475W	23.8%	≤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		
Test Conditions	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P_{max} [W]	460	349	485	465	352	490	470	356	495	475	360	500
V_{oc} [V]	40.50	38.42	40.50	40.60	38.52	40.60	40.70	38.61	40.70	40.80	38.71	40.80
V_{mp} [V]	34.10	32.35	34.10	34.20	32.45	34.20	34.30	32.54	34.30	34.40	32.64	34.40
I_{sc} [A]	14.66	11.85	15.46	14.69	11.87	15.49	14.72	11.89	15.52	14.76	11.93	15.56
I_{mp} [A]	13.50	10.89	14.23	13.60	10.87	14.33	13.71	10.96	14.44	13.81	11.04	14.54
Module Efficiency		**23.0%**			**23.3%**			**23.5%**			**23.8%**	

Product Specification

Cell Type	N-Type ABC
Front cover	2.0mm coated semi tempered glass
Rear cover	2.0mm 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	Original MC4-EVO2A
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 I_{sc}	+ 0.05%/ ℃
Temperature Coefficient of V_{oc}	- 0.22%/ ℃
Temperature Coefficient of P_{max}	- 0.26%/ ℃

Installation Guide

Operation Temperature	-40℃ - +70℃
Maximum Series Fuse Rating	30A
Protection Class	Class II
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
*Optional Ariel Green coverage is available upon request

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