AIKO

NEOSTAR

3P+54 Dual-Glass Module

465W-495W



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

inter solar award 2023 WINNER

reddot winner 2023

Ariel Green

CE

TÜVRheinland

15 year Product Warranty
Extendable to 25years*

30 year Performance Warranty

IEC61215/IEC61730
IEC61701/IEC62716

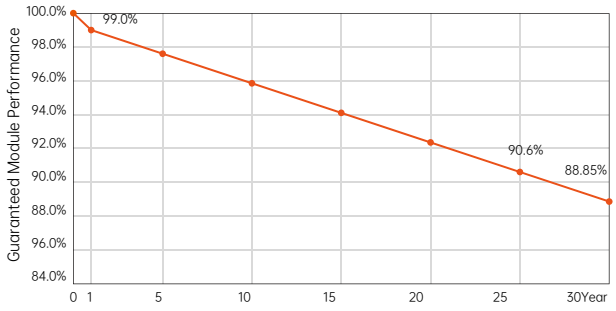
ISO9001:ISO Quality Management System
ISO14001:ISO Environmental Management System
ISO14064:Greenhouse Gas Verification Statement
ISO45001:ISO Occupational Health and Safety Management System

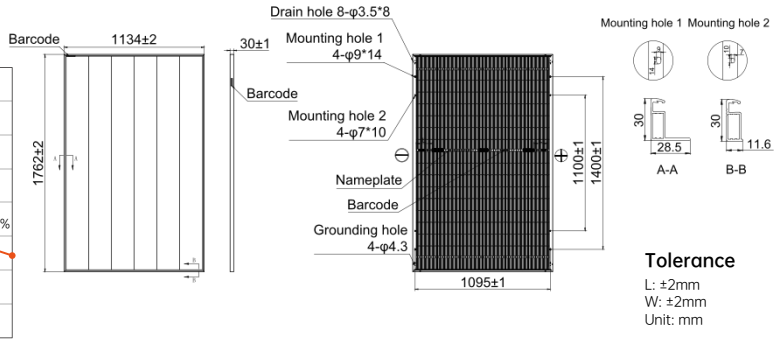
Neostar 3P+54

AIKO-A-MCE54Dw

495W	24.8%	≤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-A465-MCE54Dw			AIKO-A470-MCE54Dw			AIKO-A475-MCE54Dw			AIKO-A480-MCE54Dw			AIKO-A485-MCE54Dw			AIKO-A490-MCE54Dw			AIKO-A495-MCE54Dw		
Test Conditions	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P_{max} [W]	465	352	490	470	356	495	475	360	500	480	364	505	485	367	510	490	371	515	495	375	520
V_{oc} [V]	40.60	38.52	40.60	40.70	38.61	40.70	40.80	38.71	40.80	40.90	38.80	40.90	41.00	38.90	41.00	41.10	38.99	41.10	41.20	39.09	41.20
V_{mp} [V]	34.20	32.45	34.20	34.30	32.54	34.30	34.40	32.64	34.40	34.50	32.73	34.50	34.60	32.83	34.60	34.70	32.92	34.70	34.80	33.02	34.80
I_{sc} [A]	14.69	11.87	15.49	14.72	11.89	15.52	14.76	11.93	15.56	14.80	11.96	15.60	14.84	11.99	15.64	14.88	12.02	15.68	14.92	12.06	15.72
I_{mp} [A]	13.60	10.87	14.33	13.71	10.96	14.44	13.81	11.04	14.54	13.92	11.13	14.64	14.02	11.21	14.75	14.13	11.29	14.85	14.23	11.37	14.95
Module Efficiency	**23.3%**			**23.5%**			**23.8%**			**24.0%**			**24.3%**			**24.5%**			**24.8%**		

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

www.aikosolar.com
marketing@aikosolar.com

*AIKO reserves right to update the specification without notice
*Optional Ariel Green coverage is available upon request

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