AIKO

NEOSTAR

Champion

Draft

G4-54Mw Mono-Glass

500W-510W



Technical Features:

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

BloombergNEF TIER 1 PV Modules

inter solar award 2023 WINNER

ESG

reddot winner

Ariel Green

CE

TÜVRheinland

15 year Product Warranty

*Extendable to 25years

30 year Performance Warranty

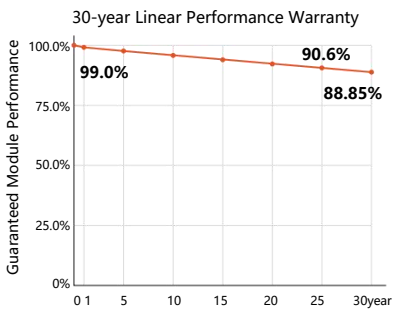
IEC61215/IEC61730
IEC61701/IEC62716

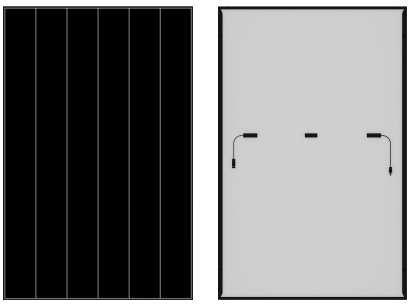
ISO9001:ISO Quality Management System
ISO14001:ISO Environmental Management System
ISO14064:Greenhouse Gas Verification Statement
ISO45001:ISO Occupational Health and Safety Management System

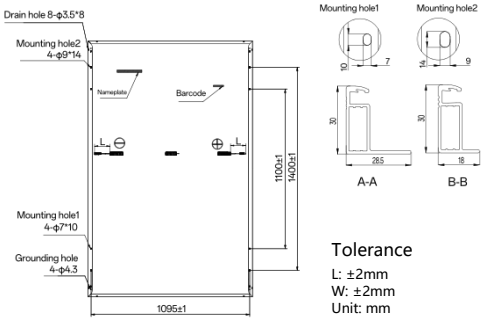
Neostar 54

AIKO-A-MCE54Mw

510W	25.5%	≤1%	≤0.35%
Output	Efficiency	First-year Degradation	Annual Degradation from Year 2-30







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-A500-MCE54Mw		AIKO-A505-MCE54Mw		AIKO-A510-MCE54Mw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	500	379	505	383	510	387
V_{oc} [V]	41.30	39.18	41.38	39.26	41.46	39.33
V_{mp} [V]	34.90	33.11	35.00	33.21	35.10	33.30
I_{sc} [A]	14.96	12.09	15.08	12.18	15.20	12.28
I_{mp} [A]	14.33	11.46	14.44	11.54	14.54	11.62
Module Efficiency	**25.0%**		**25.3%**		**25.5%**	

Product Specification

Cell Type	N-Type ABC
Glass	3.2mm tempered glass
Backsheet	High weather resistant backsheet
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	21.1kg±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%/ ℃
NOCT (Nominal Operating Cell Temperature)	45℃ (±2℃)

Installation Guide

Operation Temperature	-40℃ - +70℃
Maximum Series Fuse Rating	25A
Protection Class	ClassⅡ
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 C

Installer Community

Get rewarded
for installing AIKO

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