AIKO

NEOSTAR

Draft

G4-54Db

Dual-Glass 480W-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 Excellence

inter solar award 2023 WINNER

reddot winner 2023

Warranty partner

Munich RE

CE

TÜVRheinland

30 year Product Warranty

30 year Performance Warranty

IEC61215/IEC61730
IEC61701/IEC62716

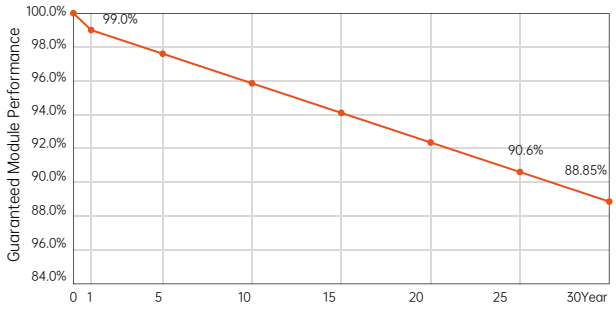
ISO9001:ISO Quality Management System
ISO14001:ISO Environmental Management System
ISO14064:Greenhouse Gas Verification Statement
ISO45001:ISO Occupational Health and Safety Management System

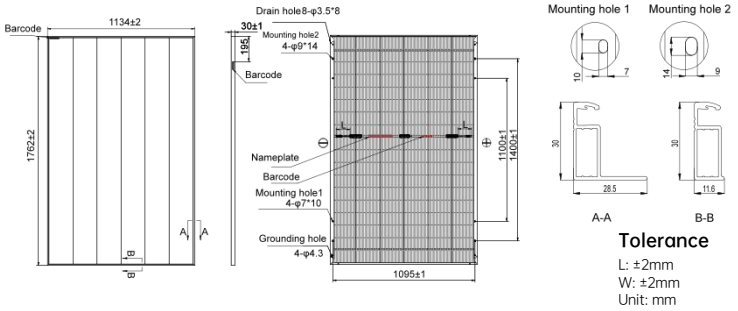
Neostar 54

AIKO-A-MCE54Db

495W	24.8%	≤1%	≤0.35%
Output	Efficiency	First-year Degradation	Annual Degradation from Year 2-30

30-year Linear Performance Warranty





Electrical Characteristics (STC: AM1.5 1000W/m² 25℃ NOCT: AM1.5 800W/m² 20℃ 1m/s) Power Tolerance:0~ + 3%

Module Type	AIKO-A480-MCE54Db			AIKO-A485-MCE54Db			AIKO-A490-MCE54Db			AIKO-A495-MCE54Db		
Test Conditions	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P_{max} [W]	480	364	505	485	367	510	490	371	515	495	375	520
V_{oc} [V]	40.41	38.34	40.41	40.51	38.43	40.51	40.61	38.53	40.61	40.71	38.62	40.71
V_{mp} [V]	33.97	32.23	33.97	34.07	32.32	34.07	34.17	32.42	34.17	34.27	32.51	34.27
I_{sc} [A]	15.15	12.24	15.97	15.21	12.29	16.04	15.27	12.34	16.11	15.33	12.39	16.18
I_{mp} [A]	14.13	11.30	14.87	14.24	11.39	14.98	14.35	11.48	15.08	14.45	11.55	15.18
Module Efficiency		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

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

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