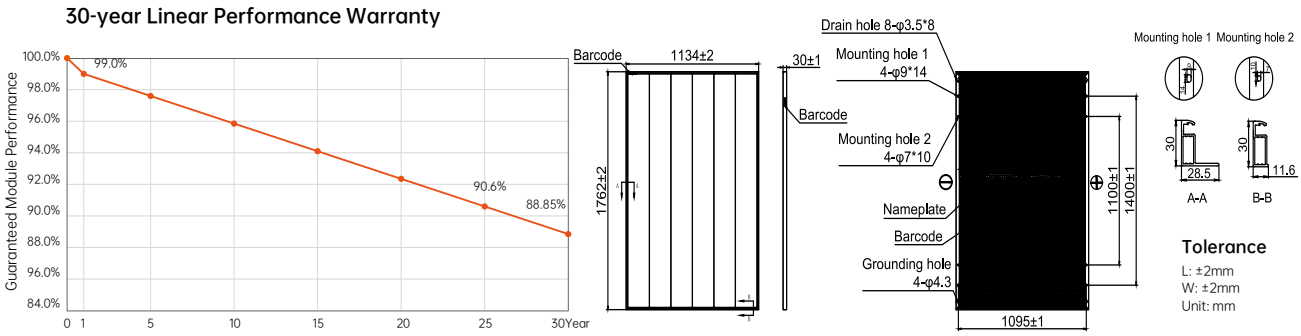

AIKO
NEOSTAR
3S+54 Dual-Glass Bifacial Module
480W-490W
Technical Features:
Partial Shading Optimisation
Better Temperature Coefficient
High Temperature Restriction
Micro-crack Resistance
Higher Power
Lower BOS
More Aesthetic Values
Infinite Technology
TIER 1 BloombergNEF
ESG
inter solar award 2023 WINNER
reddot winner 2023
30 year Product Warranty
30 year Performance Warranty
CE
TÜVRheinland
Warranty partner
Munich RE
IEC 61215 IEC 61730
2014/35/EU
ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

Neostar 3S+54 AIKO-A-MCE54Db

490W	24.5%	≤1%	≤0.35%
Output	Efficiency	First-year Degradation	Annual Degradation from Year 2-30



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		
Test Conditions	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P_{max} [W]	480	364	505	485	367	510	490	371	515
V_{oc} [V]	40.90	38.80	40.90	41.00	38.90	41.00	41.10	38.99	41.10
V_{mp} [V]	34.50	32.73	34.50	34.60	32.83	34.60	34.70	32.92	34.70
I_{sc} [A]	14.80	11.96	15.60	14.84	11.99	15.64	14.88	12.02	15.68
I_{mp} [A]	13.92	11.13	14.64	14.02	11.21	14.75	14.13	11.29	14.85
Module Efficiency		**24.0%**			**24.3%**			**24.5%**	

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-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	ClassII
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	35 mm diameter hail at 23 m/s
Fire Rating	IEC Class A