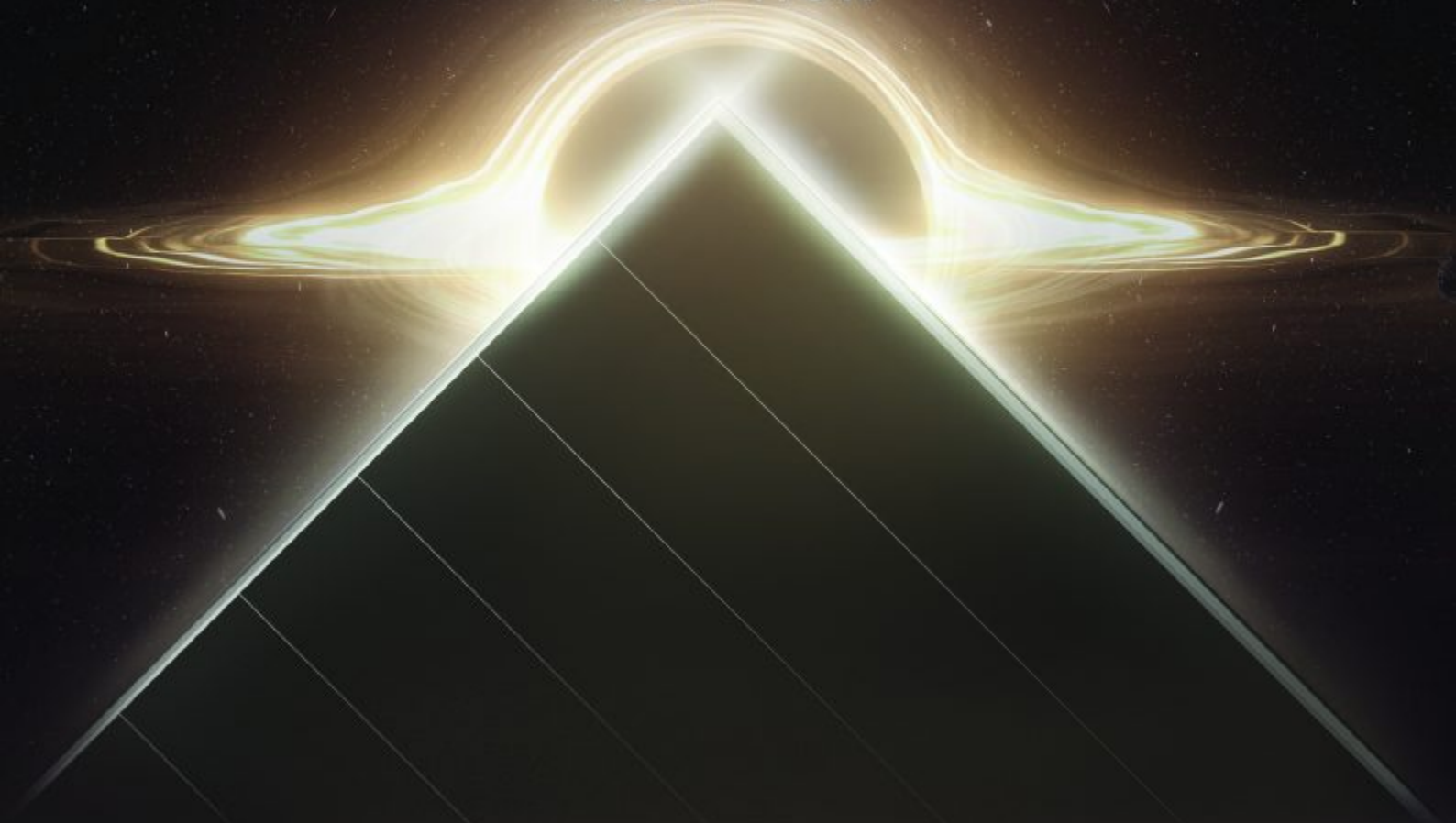
AIKO

NEOSTAR

3N54 Mono-glass Module

470W-495W



Technical Features:

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

ESG

intersolar award 2023 WINNER

reddot winner 2023

15 year Product Warranty (Extendable to 25years*)

30 year Performance Warranty

CE

TÜVRheinland

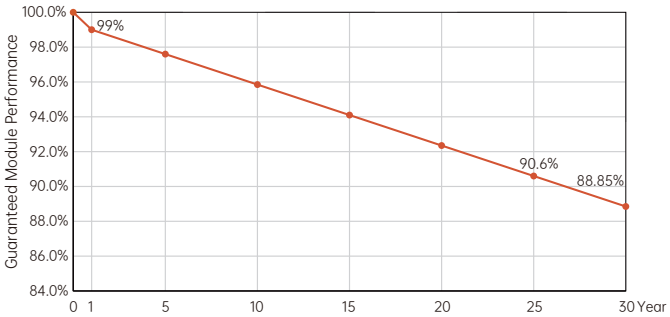
Munich RE

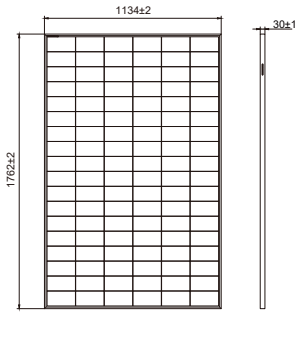
Neostar 3N54

AIKO-A-MCE54Mw

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-A470-MCE54Mw		AIKO-A475-MCE54Mw		AIKO-A480-MCE54Mw		AIKO-A485-MCE54Mw		AIKO-A490-MCE54Mw		AIKO-A495-MCE54Mw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	470	356	475	360	480	364	485	367	490	371	495	375
V_{oc} [V]	40.60	38.52	40.70	38.61	40.80	38.71	40.90	38.80	41.00	38.90	41.10	38.99
V_{mp} [V]	34.00	32.26	34.10	32.35	34.20	32.45	34.30	32.54	34.40	32.64	34.50	32.73
I_{sc} [A]	14.70	11.88	14.76	11.93	14.82	11.97	14.88	12.02	14.94	12.07	15.00	12.12
I_{mp} [A]	13.83	11.05	13.94	11.14	14.04	11.22	14.15	11.31	14.25	11.39	14.35	11.48
Module Efficiency	**23.5%**		**23.8%**		**24.0%**		**24.3%**		**24.5%**		**24.8%**	

Product Specification

Cell type	N-Type ABC
Glass	3.2 mm tempered glass
Backsheet	High weather resistant backsheet
Frame	Anodized aluminum
Cable	4mm²(IEC) 12AWG(UL) ±1200mm
No. of Cells	108(6*18)
Junction Box	IP68，3 bypass diodes
Connector	MC4-Evo2
Weight	21kg±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%/ °C
Temperature Coefficient of V_{oc}	- 0.22%/ °C
Temperature Coefficient of P_{max}	- 0.26%/ °C

Installation Guide

Operation Temperature	-40℃ - +85℃
Maximum Series Fuse Rating	25A
Protection Class	Class II
Maximum System Voltage	DC1500V
Maximum Static Loading	+5400Pa/-2400Pa
Hail Test	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class C

AIKO

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*AIKO reserves right to update the specification without notice

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