

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



red dot winner 2023



Product Warranty
(Extendable to 25 years*)



Performance
Warranty



Munich RE

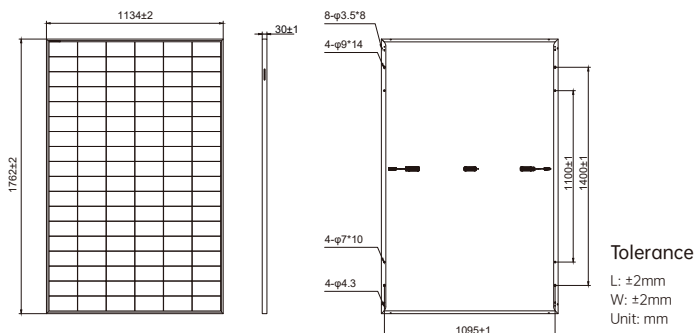
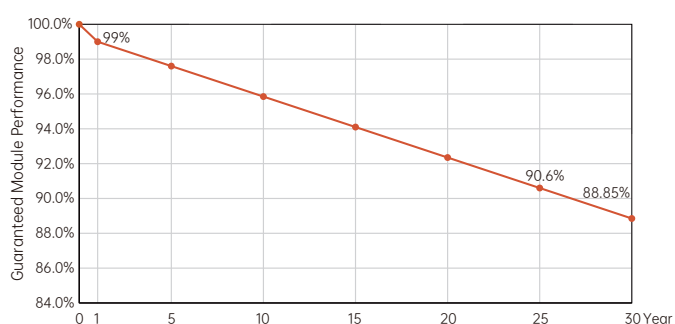


495W
Output

24.8%
Efficiency

 $\leq 1\%$
First-year Degradation

 $\leq 0.35\%$
Annual Degradation from Year 2-30

30-year Linear Performance Warranty

Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 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	4mm ² (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°C - +85°C
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

