

NEOSTAR

2P Mono-Glass Module

450W-485W

Technical Features:

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



red dot winner 2023



Product
Warranty
Extendable to 25years*



Performance
Warranty



Warranty partner

Munich RE 

485W

Output

24.3%

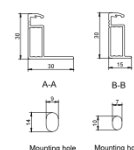
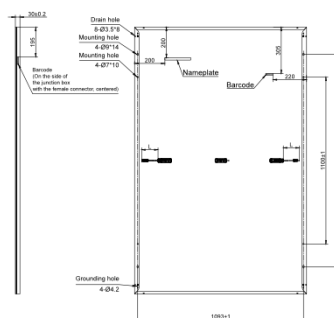
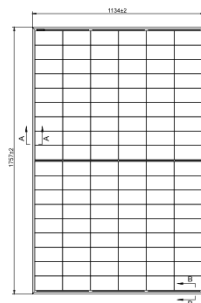
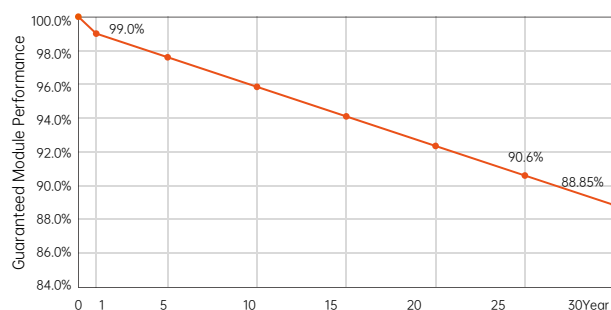
Efficiency

≤1%

First-year Degradation

≤0.35%

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°C NOCT: AM1.5 800W/m² 20°C 1m/s)

Power Tolerance: 0~+3%

Module Type	AIKO-A450-MAH54Mw	AIKO-A455-MAH54Mw	AIKO-A460-MAH54Mw	AIKO-A465-MAH54Mw	AIKO-A470-MAH54Mw	AIKO-A475-MAH54Mw	AIKO-A480-MAH54Mw	AIKO-A485-MAH54Mw
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	450	339	455	343	460	346	465	350
V _{oc} [V]	40.94	38.66	41.00	38.72	41.06	38.77	41.12	38.83
V _{mp} [V]	34.50	32.58	34.56	32.64	34.62	32.69	34.68	32.75
I _{sc} [A]	14.12	11.42	14.22	11.50	14.25	11.52	14.29	11.55
I _{mp} [A]	13.05	10.41	13.17	10.51	13.29	10.61	13.41	10.71
Module Efficiency	22.6%	22.8%	23.1%	23.3%	23.6%	23.8%	24.1%	24.3%

Product Specification

Cell Type	N-Type ABC
Glass	3.2 mm tempered glass
Frame	Black Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) ±1200mm
No. of Cells	108(6*18)
Junction Box	IP68, 3 bypass diodes
Connector	Original MC4-EVO2A
Weight	20.6kg±3%
Dimension	1757*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
V _{oc} and I _{sc} Tolerance	±3%
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

