

NEOSTAR

3S+54 Dual-Glass Bifacial Module

460W-475W

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



Performance
Warranty



IEC 61215 IEC 61730
2014/35/EU



ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

Warranty partner

Munich RE 

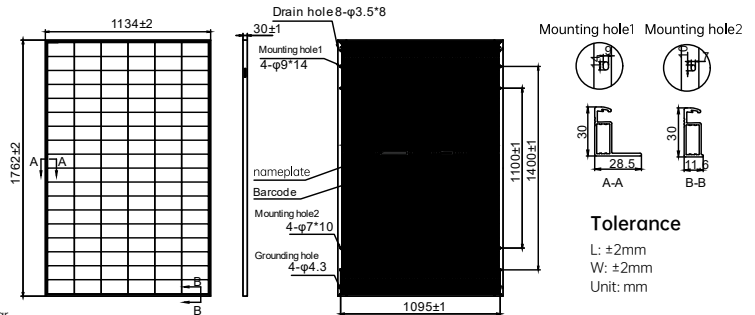
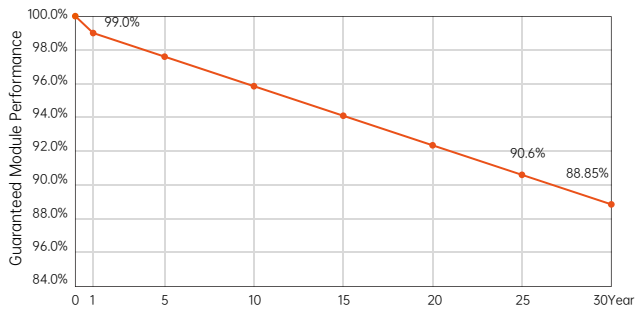
475W
Output

23.8%
Efficiency

≤1%
First-year Degradation

≤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-A460-MCE54Db		AIKO-A465-MCE54Db		AIKO-A470-MCE54Db		AIKO-A475-MCE54Db	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	460	349	465	352	470	356	475	360
V _{oc} [V]	40.50	38.42	40.60	38.52	40.70	38.61	40.80	38.71
V _{mp} [V]	34.10	32.35	34.20	32.45	34.30	32.54	34.40	32.64
I _{sc} [A]	14.66	11.85	14.69	11.87	14.72	11.89	14.76	11.93
I _{mp} [A]	13.50	10.89	13.60	10.87	13.71	10.96	13.81	11.04
Module Efficiency	23.0%		23.3%		23.5%		23.8%	

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%/ °C
Temperature Coefficient of V _{oc}	- 0.22%/ °C
Temperature Coefficient of P _{max}	- 0.26%/ °C

Installation Guide

Operation Temperature	-40°C - +70°C
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

