

NEOSTAR

3P+54 Dual-Glass Bifacial Module

465W-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 25years*



Performance Warranty



IEC 61215 IEC 61730
2014/35/EU



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

Warranty partner

Munich RE 

495W

Output

24.8%

Efficiency

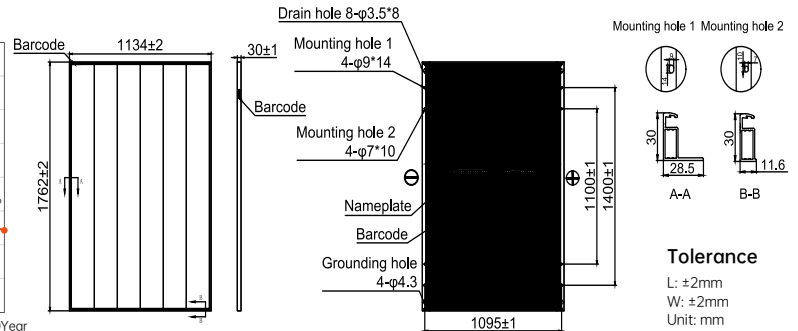
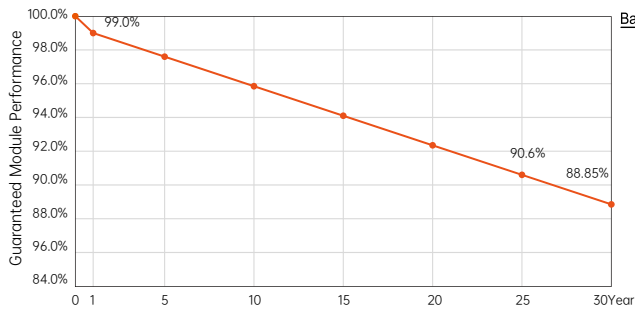
≤1%

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-A465-MCE54Dw			AIKO-A470-MCE54Dw			AIKO-A475-MCE54Dw			AIKO-A480-MCE54Dw			AIKO-A485-MCE54Dw			AIKO-A490-MCE54Dw			AIKO-A495-MCE54Dw		
Test Conditions	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P _{max} [W]	465	352	490	470	356	495	475	360	500	480	364	505	485	367	510	490	371	515	495	375	520
V _{oc} [V]	40.60	38.52	40.60	40.70	38.61	40.70	40.80	38.71	40.80	40.90	38.80	40.90	41.00	38.90	41.00	41.10	38.99	41.10	41.20	39.09	41.20
V _{mp} [V]	34.20	32.45	34.20	34.30	32.54	34.30	34.40	32.64	34.40	34.50	32.73	34.50	34.60	32.83	34.60	34.70	32.92	34.70	34.80	33.02	34.80
I _{sc} [A]	14.69	11.87	15.49	14.72	11.89	15.52	14.76	11.93	15.56	14.80	11.96	15.60	14.84	11.99	15.64	14.88	12.02	15.68	14.92	12.06	15.72
I _{mp} [A]	13.60	10.87	14.33	13.71	10.96	14.44	13.81	11.04	14.54	13.92	11.13	14.64	14.02	11.21	14.75	14.13	11.29	14.85	14.23	11.37	14.95
Module Efficiency	23.3%			23.5%			23.8%			24.0%			24.3%			24.5%			24.8%		

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

