

NEOSTAR

1U+ Dual-Glass Module
655W-680W

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



Munich RE



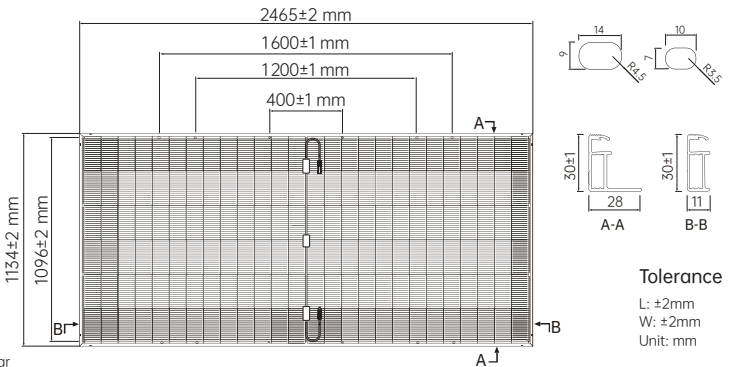
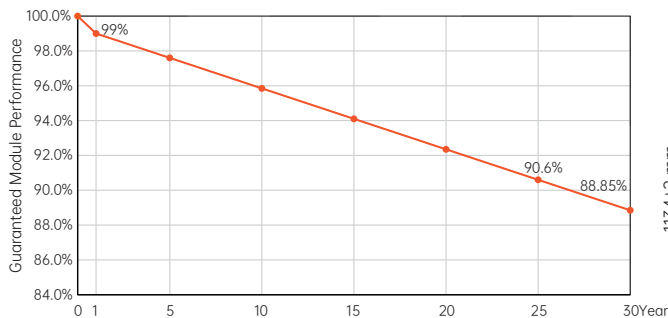
680W
Output

24.3%
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-A655-MAH78Dw		AIKO-A660-MAH78Dw		AIKO-A665-MAH78Dw		AIKO-A670-MAH78Dw		AIKO-A675-MAH78Dw		AIKO-A680-MAH78Dw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	655	493	660	497	665	501	670	505	675	508	680	512
V _{oc} [V]	58.74	55.47	58.80	55.53	58.86	55.58	58.92	55.64	58.98	55.70	58.04	55.75
V _{mp} [V]	48.61	45.91	48.67	45.97	48.73	46.02	48.79	46.08	48.85	46.14	48.91	46.19
I _{sc} [A]	14.21	11.49	14.28	11.55	14.35	11.61	14.42	11.66	14.49	11.72	14.56	11.78
I _{mp} [A]	13.48	10.76	13.57	10.82	13.65	10.89	13.74	10.96	13.82	11.03	13.91	11.10
Module Efficiency	23.4%		23.6%		23.8%		24.0%		24.1%		24.3%	

Mechanical Specification

Bifacial Factor	70±5%
Cell Type	N-Type ABC
Glass	Dual glass, 2.0 + 2.0mm coated semi tempered glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) +350mm, -280mm or Customized Length
No. of Cells	156(6*26)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 Compatible
Weight	34.7kg±3%
Dimension	2465*1134*30mm
Package Detail	36pcs per pallet / 576pcs 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

