

STELLAR

1N+66 Dual-Glass Module

645W-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



Performance
Warranty



Warranty partner

Munich RE



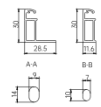
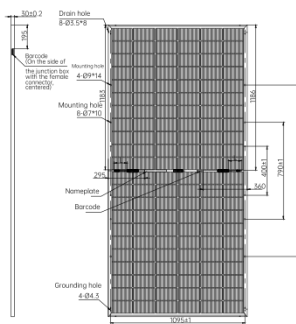
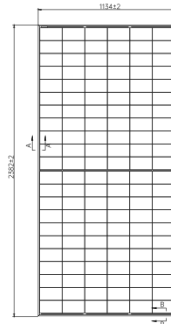
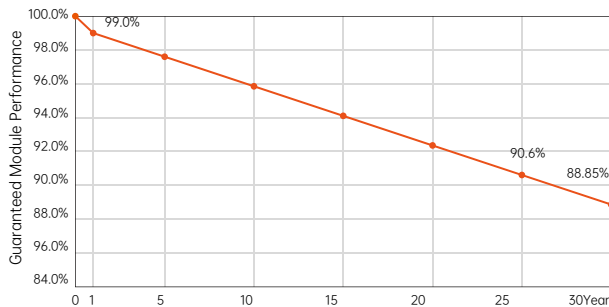
680W
Output

25.2%
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-A645-GRH66Dw		AIKO-A650-GRH66Dw		AIKO-A655-GRH66Dw		AIKO-A660-GRH66Dw		AIKO-A665-GRH66Dw		AIKO-A670-GRH66Dw		AIKO-A675-GRH66Dw		AIKO-A680-GRH66Dw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	645	491	650	495	655	499	660	503	665	507	670	511	675	514	680	518
V _{oc} [V]	49.60	47.42	49.70	47.52	49.80	47.62	49.90	47.72	50.00	47.82	50.10	47.91	50.20	48.01	50.30	48.10
V _{mp} [V]	40.59	38.90	40.68	38.98	40.80	39.08	40.90	39.18	41.00	39.27	41.11	39.37	41.21	39.46	41.32	39.56
I _{sc} [A]	16.55	13.35	16.64	13.42	16.72	13.48	16.80	13.54	16.88	13.60	16.96	13.66	17.04	13.71	17.12	13.77
I _{mp} [A]	15.89	12.62	15.98	12.69	16.06	12.76	16.14	12.83	16.22	12.90	16.30	12.97	16.38	13.03	16.46	13.09
Module Efficiency	23.9%		24.1%		24.2%		24.4%		24.6%		24.8%		25.0%		25.2%	

Product Specification

Bifacial Factor	75±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) +400mm, -200mm/±1400mm or Customized Length
No. of Cells	132(6*22)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 Compatible/Original MC4-EVO2A
Weight	32.5kg±3%
Dimension	2382*1134*30mm
Package Detail	36pcs per pallet / 144pcs per 20'GP / 720pcs 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	30A
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 A

