

# STELLAR

2N+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



reddot winner 2023



Product Warranty



Performance Warranty



Warranty partner

Munich RE 

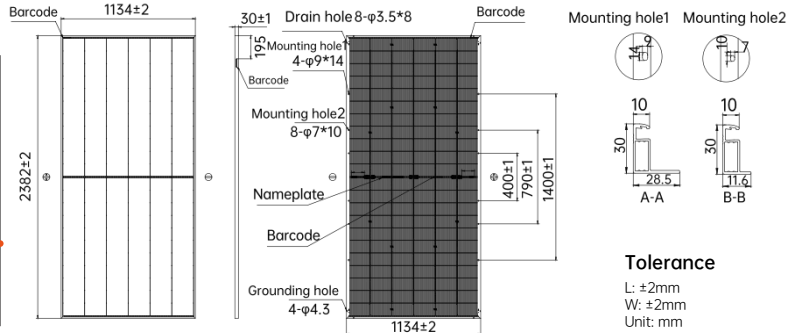
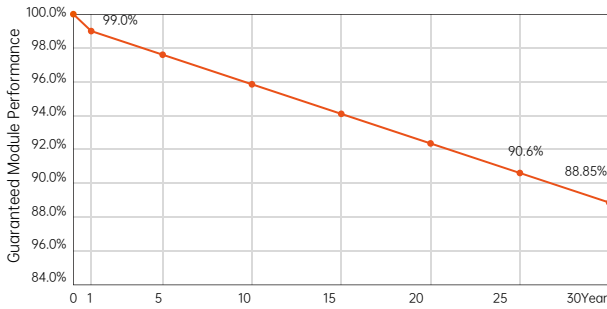
**680W**  
Output

**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/m<sup>2</sup> 25°C NOCT: AM1.5 800W/m<sup>2</sup> 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		
	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P <sub>max</sub> [W]	645	491	695	650	495	700	655	499	705	660	503	710	665	507	715	670	511	720	675	514	725	680	518	730
V <sub>oc</sub> [V]	49.60	47.42	49.60	49.70	47.52	49.70	49.80	47.62	49.80	49.90	47.72	49.90	50.00	47.82	50.00	50.10	47.91	50.10	50.20	48.01	50.20	50.30	48.1	50.30
V <sub>mp</sub> [V]	40.59	38.90	40.65	40.68	38.98	40.75	40.80	39.08	40.85	40.90	39.18	40.92	41.00	39.27	41.02	41.11	39.37	41.13	41.21	39.46	41.23	41.32	39.56	41.34
I <sub>sc</sub> [A]	16.55	13.35	17.81	16.64	13.42	17.88	16.72	13.48	17.94	16.8	13.54	18	16.88	13.6	18.06	16.96	13.66	18.12	17.04	13.71	18.18	17.12	13.77	18.24
I <sub>mp</sub> [A]	15.89	12.62	17.10	15.98	12.69	17.18	16.06	12.76	17.26	16.14	12.83	17.35	16.22	12.9	17.43	16.30	12.97	17.51	16.38	13.03	17.58	16.46	13.09	17.66
<b>Module Efficiency</b>	<b>23.9%</b>			<b>24.1%</b>			<b>24.2%</b>			<b>24.4%</b>			<b>24.6%</b>			<b>24.8%</b>			<b>25.0%</b>			<b>25.2%</b>		

Product Specification

Bifacial Factor	80±5%
Cell Type	N-Type ABC
Glass	Dual glass, 2.0 + 2.0mm coated semi-tempered glass
Frame	Anodized aluminum
Cable	4mm <sup>2</sup> (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 <sub>sc</sub>	+ 0.05%/ °C
Temperature Coefficient of V <sub>oc</sub>	- 0.22%/ °C
Temperature Coefficient of P <sub>max</sub>	- 0.26%/ °C

Installation Guide

Operation Temperature	-40°C - +70°C
Maximum Series Fuse Rating	30A
Protection Class	Class II
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	35 mm diameter hail at 27.2 m/s
Fire Rating	IEC Class A



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Made in China

\*AIKO reserves right to update the specification without notice  
\*Optional Munich Re coverage is available upon request  
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