AIKO

STELLAR

3N+72 Dual-Glass Module

650W-685W

Technical Features:

- Partial Shading Optimisation
- Better Temperature Coefficient
- High Temperature Restriction
- Micro-crack Resistance
- Higher Power
- Lower BOS
- More Aesthetic Values
- Infinite Technology

TIER 1 BloombergNEF

ESG Transparency Award 2023/24 Excellence

inter solar award 2023 WINNER

reddot winner 2023

15 year Product Warranty

30 year Performance Warranty

CE

TÜVRheinland

Warranty partner

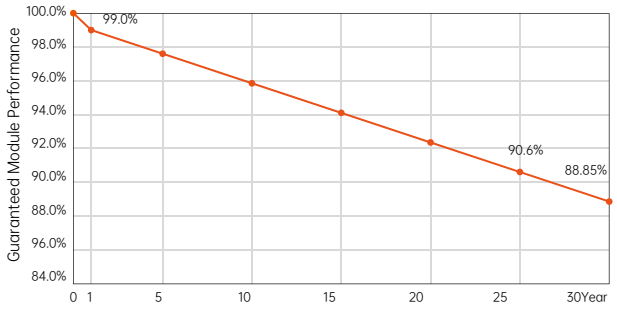
Munich RE

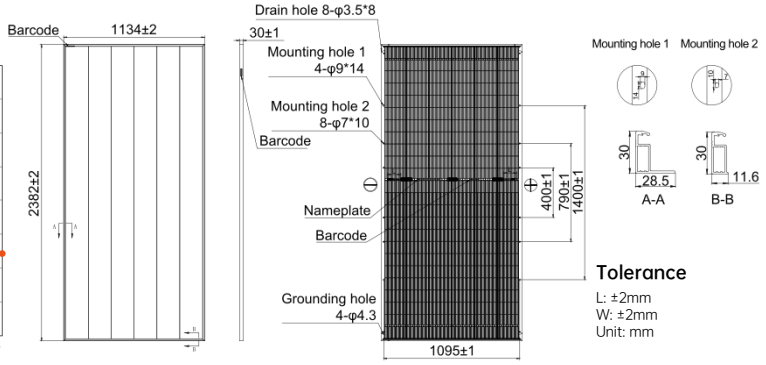
Stellar 3N+72

AIKO-A-MDE72Dw

685W	25.4%	≤1%	≤0.35%
Output	Efficiency	First-year Degradation	Annual Degradation from Year 2-30

30-year Linear Performance Warranty





Electrical Characteristics (STC: AM1.5 1000W/m² 25℃ NOCT: AM1.5 800W/m² 20℃ 1m/s) Power Tolerance:0~ + 3%

Module Type	AIKO-A650-MDE72Dw		AIKO-A655-MDE72Dw		AIKO-A660-MDE72Dw		AIKO-A665-MDE72Dw		AIKO-A670-MDE72Dw		AIKO-A675-MDE72Dw		AIKO-A680-MDE72Dw		AIKO-A685-MDE72Dw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	650	493	655	496	660	500	665	504	670	508	675	512	680	515	685	519
V_{oc} [V]	54.00	51.23	54.10	51.33	54.20	51.42	54.40	51.61	54.60	51.80	54.80	51.99	55.00	52.18	55.20	52.37
V_{mp} [V]	45.30	42.98	45.40	43.07	45.50	43.17	45.60	43.26	45.70	43.36	45.80	43.45	45.90	43.55	46.00	43.64
I_{sc} [A]	15.06	12.17	15.12	12.22	15.18	12.27	15.24	12.31	15.30	12.36	15.36	12.41	15.42	12.46	15.48	12.51
I_{mp} [A]	14.35	11.48	14.43	11.54	14.51	11.60	14.59	11.66	14.67	11.72	14.74	11.79	14.82	11.85	14.90	11.91
Module Efficiency	**24.1%**		**24.2%**		**24.4%**		**24.6%**		**24.8%**		**25.0%**		**25.2%**		**25.4%**	

Product Specification

Cell Type	N-Type ABC
Glass	Dual glass, 2.0 + 2.0mm coated semi tempered glass
Frame	Anodized aluminum
Cable	4mm²(IEC) 12AWG(UL) +400mm, -200mm/±1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 Compatible/Original MC4-EVO2A
Weight	32.2kg±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℃ - +70℃
Maximum Series Fuse Rating	30A
Protection Class	Class II
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

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*AIKO reserves right to update the specification without notice

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