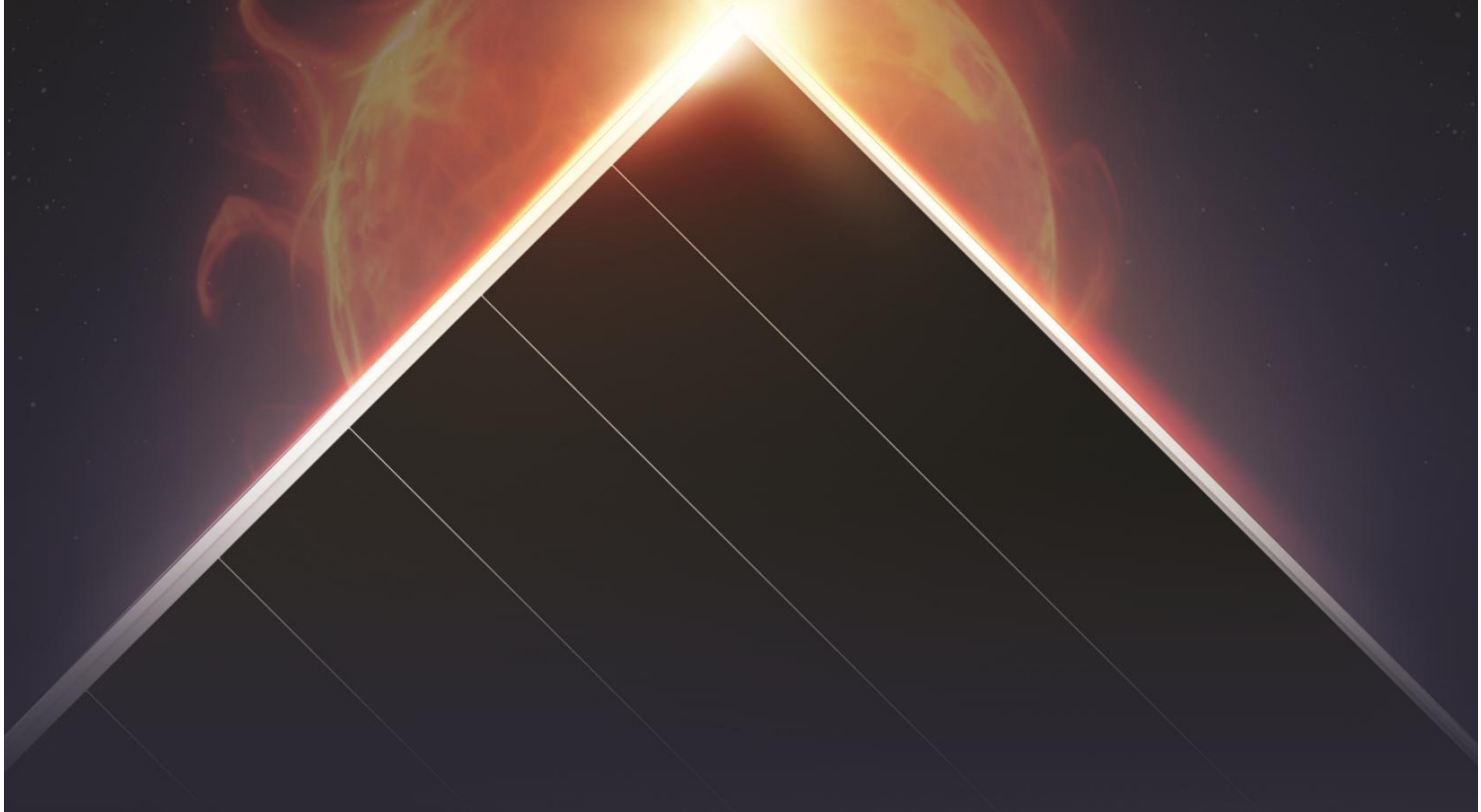
AIKO

STELLAR

3N+72 Dual-Glass Bifacial 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

inter solar award 2023 WINNER

reddot winner 2023

15 year Product Warranty

30 year Performance Warranty

CE

TÜVRheinland

Warranty partner

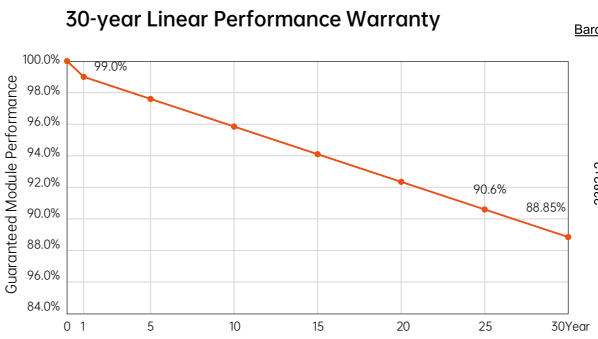
Munich RE

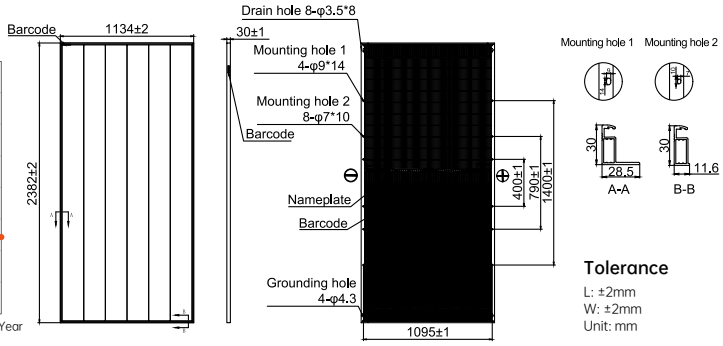
IEC 61215 IEC 61730
2014/35/EU
ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

Stellar 3N+72

AIKO-A-MDE72Dw

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





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	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P_{max} [W]	650	520	685	655	524	690	660	527	695	665	531	700	670	535	705	675	538	710	680	542	715	685	546	720
V_{oc} [V]	54.90	51.23	54.90	55.00	51.33	55.00	55.10	51.43	55.10	55.20	51.53	55.20	55.30	51.63	55.30	55.40	51.73	55.40	55.50	51.83	55.50	55.60	51.93	55.60
V_{mp} [V]	44.79	42.98	44.79	44.89	43.07	44.89	44.99	43.16	44.99	45.09	43.25	45.09	45.19	43.34	45.19	45.29	43.43	45.29	45.39	43.52	45.39	45.49	43.61	45.49
I_{sc} [A]	15.27	13.08	16.08	15.33	13.14	16.14	15.39	13.20	16.20	15.45	13.26	16.26	15.52	13.32	16.33	15.59	13.38	16.39	15.66	13.44	16.46	15.73	13.50	16.52
I_{mp} [A]	14.52	12.10	15.29	14.60	12.16	15.37	14.68	12.22	15.45	14.75	12.28	15.52	14.83	12.34	15.60	14.91	12.40	15.68	14.99	12.46	15.75	15.07	12.52	15.83
Module Efficiency	**24.1%**			**24.2%**			**24.4%**			**24.6%**			**24.8%**			**25.1%**			**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/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
Fire Rating	IEC Class A