AIKO

COMET

3N72 Mono-Glass Module

655W-690W



Technical Features:

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

BloombergNEF TIER 1 PV Modules

ESG TRANSPARENCY AWARD 2023/24 EXCELLENCE

inter solar award 2023 WINNER

reddot winner 2023

Ariel Green

CE

TÜVRheinland

15 year Product Warranty
Extendable to 25years*

30 year Performance Warranty

IEC61215/IEC61730
IEC61701/IEC62716

ISO9001:ISO Quality Management System
ISO14001:ISO Environmental Management System
ISO14064:Greenhouse Gas Verification Statement
ISO45001:ISO Occupational Health and Safety Management System

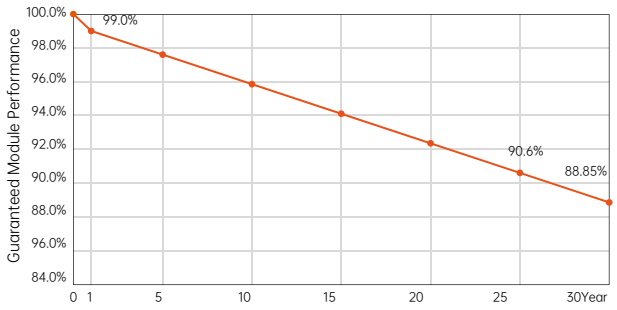
columbus **Official representative in Ukraine** +380 93 714 59 95 • info@columbusenergy.com.ua • **columbusenergy.com.ua**

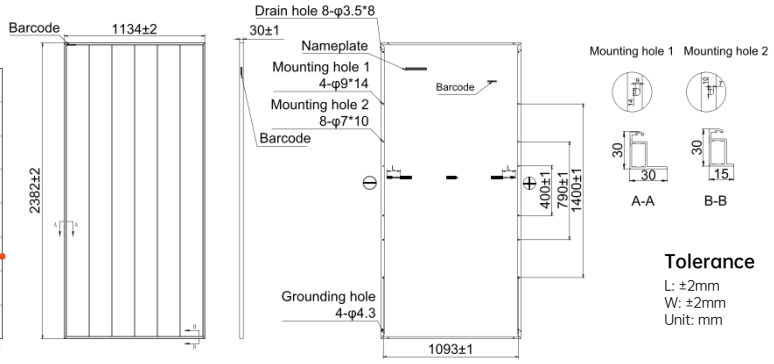
Comet 3N72

AIKO-A-MDE72Mw

690W	25.5%	≤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-A655-MDE72Mw		AIKO-A660-MDE72Mw		AIKO-A665-MDE72Mw		AIKO-A670-MDE72Mw		AIKO-A675-MDE72Mw		AIKO-A680-MDE72Mw		AIKO-A685-MDE72Mw		AIKO-A690-MDE72Mw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	655	496	660	500	665	504	670	508	675	512	680	515	685	519	690	523
V_{oc} [V]	54.10	51.33	54.20	51.42	54.35	51.56	54.50	51.71	54.65	51.85	54.80	51.99	55.00	52.18	55.20	52.37
V_{mp} [V]	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	46.10	43.74
I_{sc} [A]	15.16	12.25	15.22	12.30	15.28	12.35	15.35	12.40	15.41	12.45	15.47	12.5	15.53	12.55	15.59	12.6
I_{mp} [A]	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	14.97	11.97
Module Efficiency	**24.2%**		**24.4%**		**24.6%**		**24.8%**		**25.0%**		**25.2%**		**25.4%**		**25.5%**	

Product Specification

Cell Type	N-Type ABC
Glass	3.2mm tempered glass
Backsheet	High weather resistant backsheet
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	28.2kg±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%/ ℃
Temperature Coefficient of V_{oc}	- 0.22%/ ℃
Temperature Coefficient of P_{max}	- 0.26%/ ℃

Installation Guide

Operation Temperature	-40℃ - +70℃
Maximum Series Fuse Rating	25A
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 C

*AIKO reserves right to update the specification without notice
*Optional Ariel Green coverage is available upon request