AIKO

Stellar 1N+

Polaris 1N+

ABC N-Type

Dual-glass Bifacial Model

Up to 24.1%
620W-650W



15 year Product Warranty

30 year Performance Warranty

Premium Appearance

No grid lines on the front

Higher Power Output

Higher efficiency: 24.1%
Lower degradation: 1 year⩽1.0%, 2 -30 year⩽0.35%
Better temperature coefficient: -0.26%/ ℃

Optimized Balance of System (BOS)

Significant savings on mounting structure, cabling, and labour cost

Shading Unique Optimization

Complete Set of Quality Management System

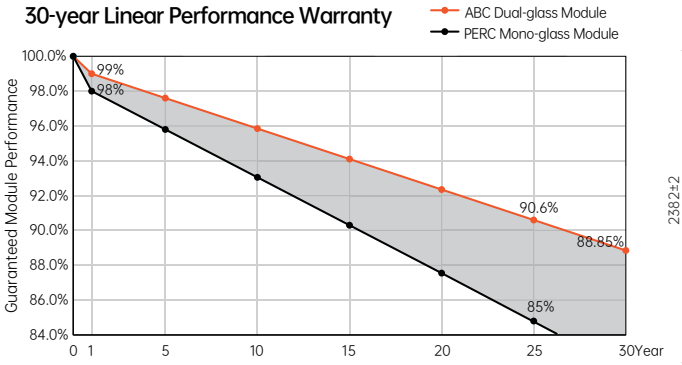
IEC 61730 (2023) IEC 61215 (2021)
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System
ISO 45001:2018 Occupational Safety and Management System
(Made in China)

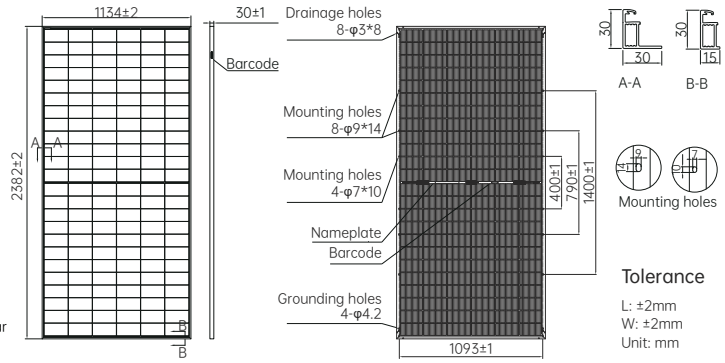
Munich RE CE TÜVRheinland CQC

Polaris 1N+

AIKO-G-MCH72Dw

650W	24.1%	⩽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) φVoc=99% φIsc=68% φPmax=65% Power Tolerance:0~+3%

Model	AIKO-G620-MCH72Dw		AIKO-G625-MCH72Dw		AIKO-G630-MCH72Dw		AIKO-G635-MCH72Dw		AIKO-G640-MCH72Dw		AIKO-G645-MCH72Dw		AIKO-G650-MCH72Dw	
Test Conditions	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
P_{max} [W]	620	675	625	680	630	685	635	690	640	695	645	700	650	705
V_{oc} [V]	53.40	53.40	53.50	53.50	53.60	53.60	53.70	53.70	53.80	53.80	53.90	53.90	54.00	54.00
V_{mp} [V]	44.70	44.70	44.80	44.80	44.90	44.90	45.00	45.00	45.10	45.10	45.20	45.20	45.30	45.30
I_{sc} [A]	14.70	15.89	14.76	15.97	14.82	16.05	14.88	16.13	14.94	16.21	15.00	16.29	15.06	16.37
I_{mp} [A]	13.88	15.11	13.96	15.18	14.04	15.26	14.12	15.34	14.20	15.42	14.27	15.49	14.35	15.57
Module Efficiency	**23.0%**		**23.1%**		**23.3%**		**23.5%**		**23.7%**		**23.9%**		**24.1%**	

Mechanical Specification

Bifacial Factor	65±5%
Cell Type	N-Type ABC
Glass	Dual glass,2.0+2.0mm Heat Strengthened Glass
Frame	Anodized aluminum
Cable	4mm²(IEC) 12AWG(UL) 350mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, three bypass diodes
Connector	MC4 EVOA/MC4 EVO2
Weight	33.5kg±5%
Dimension	2382*1134*30mm
Package Detail	36pcs per pallet/144 pcs per 20' GP/576pcs per 40' HQ

Temeprature 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℃~+85℃
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 C

Zhejiang Aiko Solar Technology Co., Ltd.
www.aikosolar.com
marketing@aikosolar.com

*AIKO Energy reserves right to update the specification without notice

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