



Stellar 1N+

# Polaris 1N+

ABC N-Type

Dual-glass Bifacial Model

Up to **24.1%**  
**620W-650W**



Product  
Warranty



Performance  
Warranty

## Premium Appearance

No grid lines on the front

## Higher Power Output

Higher efficiency: 24.1%

Lower degradation: 1 year  $\leq 1.0\%$ , 2 -30 year  $\leq 0.35\%$

Better temperature coefficient:  $-0.26\%/^{\circ}\text{C}$

## 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)



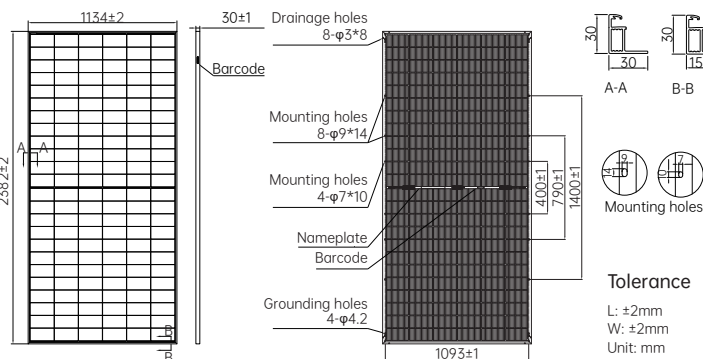
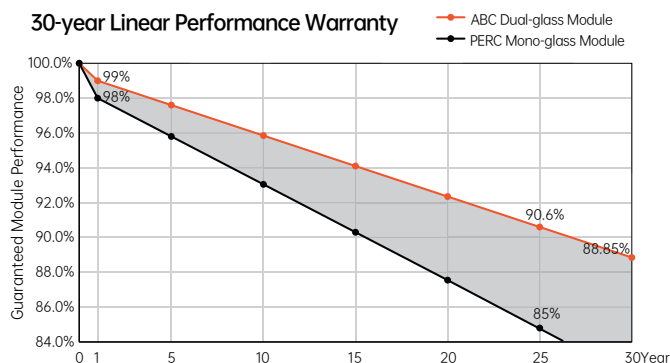
**650W**  
Output

**24.1%**  
Efficiency

**≤1%**  
First-year Degradation

**≤0.35%**  
Annual Degradation from Year 2-30

**30-year Linear Performance Warranty**



**Electrical Characteristics** (STC: AM1.5 1000W/m<sup>2</sup> 25°C NOCT: AM1.5 800W/m<sup>2</sup> 20°C 1m/s)  $\phi V_{oc}=99\%$   $\phi I_{sc}=68\%$   $\phi P_{max}=65\%$  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	
	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
<b>Module Efficiency</b>	<b>23.0%</b>		<b>23.1%</b>		<b>23.3%</b>		<b>23.5%</b>		<b>23.7%</b>		<b>23.9%</b>		<b>24.1%</b>	

**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	4mm <sup>2</sup> (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

**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°C~+85°C
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  
DS\_EN\_2404\_V1.3