



# Comet 1N

ABC N-Type

Mono-Glass Model

Up to **23.6%**  
**590W-610W**



Product  
Warranty



Performance  
Warranty



reddot winner 2023

## Premium Appearance

No front grid lines

## Higher Power Output

Higher efficiency: 23.6%

Lower degradation: 1st year  $\leq 1.0\%$ , Linear Degradation  $\leq 0.35\%$

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

## Optimized Balance of System (BOS)

Significant savings on mounting structure, cabling, and labour cost



## Complete Set of Quality Management System

IEC 61730 (2016) IEC 61215 (2021)

ISO 9001:2015 Quality Management System

ISO 14001:2015 Environmental Management System

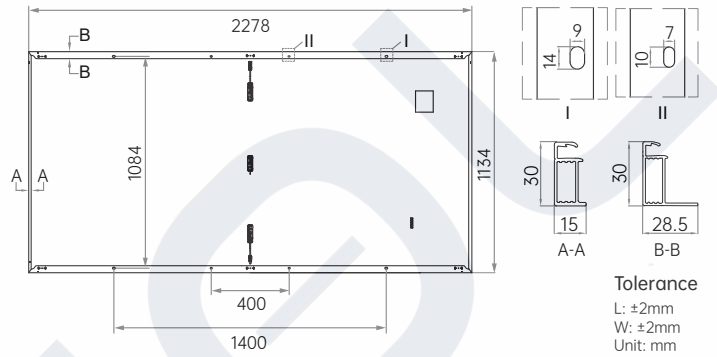
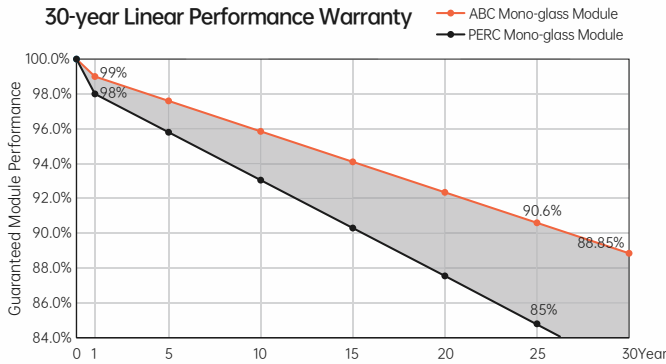
ISO 45001:2018 Occupational Safety and Management System

**610W**  
Output

**23.6%**  
Efficiency

**≤1%**  
First-year Degradation

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



Electrical Characteristics (STC: AM1.5 1000W/m <sup>2</sup> 25°C NOCT: AM1.5 800W/m <sup>2</sup> 20°C 1m/s)											Power Tolerance: 0~ + 3%	
Model	AIKO-A590-MAH72Mw		AIKO-A595-MAH72Mw		AIKO-A600-MAH72Mw		AIKO-A605-MAH72Mw		AIKO-A610-MAH72Mw			
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P <sub>max</sub> [W]	590	444	595	448	600	452	605	456	610	459		
V <sub>oc</sub> [V]	53.79	50.80	53.89	50.89	53.99	50.99	54.09	51.08	54.19	51.18		
V <sub>mp</sub> [V]	44.48	42.01	44.58	42.10	44.68	42.19	44.78	42.29	44.88	42.38		
I <sub>sc</sub> [A]	14.03	11.34	14.11	11.41	14.20	11.48	14.28	11.55	14.36	11.61		
I <sub>mp</sub> [A]	13.27	10.59	13.35	10.65	13.44	10.72	13.52	10.79	13.60	10.85		
<b>Module Efficiency</b>	<b>22.8%</b>		<b>23.0%</b>		<b>23.2%</b>		<b>23.4%</b>		<b>23.6%</b>			

Mechanical Specification	
Cell Type	N-Type ABC
Front Cover Mono glass	3.2 mm tempered 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, 3 bypass diodes
Connector	MC4 compatible
Weight	27kg
Dimension	2278*1134*30mm
Package Detail	36pcs per pallet / 180pcs per 20'GP / 720pcs per 40'HC

Temperature Ratings (STC)	
Temperature Coefficient of I <sub>sc</sub>	+ 0.05%/ °C
Temperature Coefficient of V <sub>oc</sub>	- 0.22%/ °C
Temperature Coefficient of P <sub>max</sub>	- 0.26%/ °C

Installation Guide	
Operation Temperature	-40°C - +85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
V <sub>oc</sub> and I <sub>sc</sub> 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



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\*AIKO Energy reserves right to update the specification without notice  
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