



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

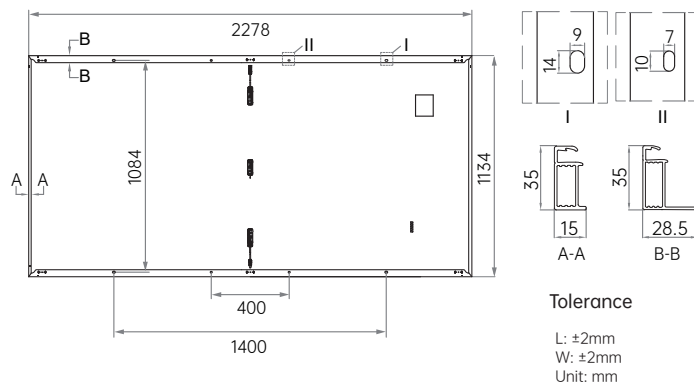
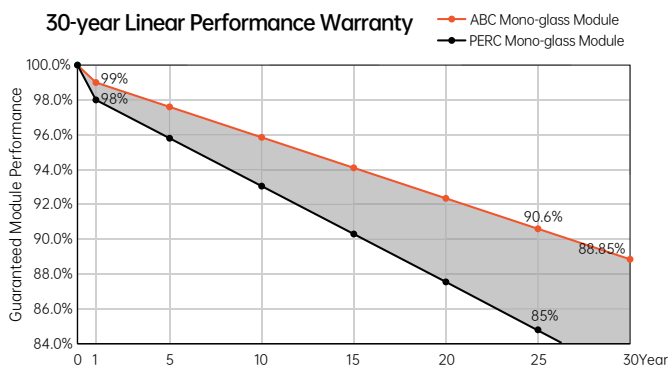
ISO 14001:2015 Environmental Management System

ISO 45001:2018 Occupational Safety and Management System

610W
Output

23.6%
Efficiency

 $\leq 1\%$
First-year Degradation

 $\leq 0.35\%$
Annual Degradation from Year 2-30

Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 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
P_{max} [W]	590	444	595	448	600	452	605	456	610	459
V_{oc} [V]	53.79	50.80	53.89	50.89	53.99	50.99	54.09	51.08	54.19	51.18
V_{mp} [V]	44.48	42.01	44.58	42.10	44.68	42.19	44.78	42.29	44.88	42.38
I_{sc} [A]	14.03	11.34	14.11	11.41	14.20	11.48	14.28	11.55	14.36	11.61
I_{mp} [A]	13.27	10.59	13.35	10.65	13.44	10.72	13.52	10.79	13.60	10.85
Module Efficiency	22.8%		23.0%		23.2%		23.4%		23.6%	

Mechanical Specification

Cell Type	N-Type ABC
Front Cover Mono glass	3.2 mm tempered glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) 350mm or 1400mm
No. of Cells	144(6*24)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 compatible
Weight	28.6kg
Dimension	2278*1134*35mm
Package Detail	31pcs per pallet / 155pcs per 20'GP / 620pcs 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°C - +85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
V_{oc} and I_{sc} Tolerance	$\pm 3\%$
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

