



COMET

1N Mono-Glass Module

590W-615W

Technical Features:



Partial Shading Optimisation



Better Temperature Coefficient



High Temperature Restriction



Micro -crack Resistance



Higher Power



Lower BOS



More Aesthetic Values



red dot winner 2023



Product
Warranty
Extendable to 25years*



Performance
Warranty



Warranty partner

Munich RE 

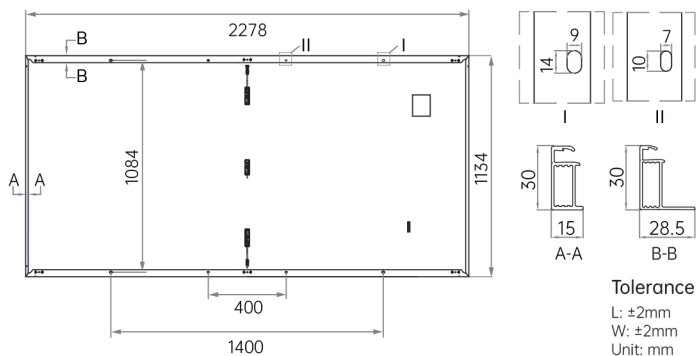
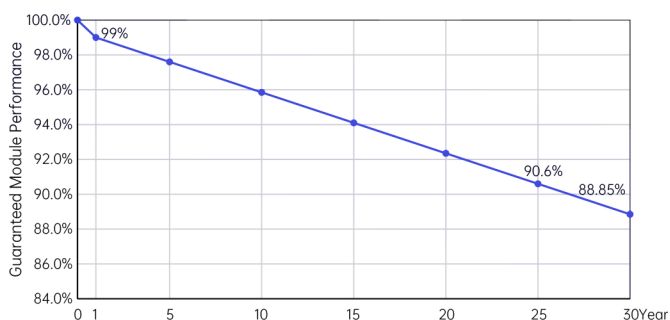
615W
Output

23.8%
Efficiency

1%
First-year Degradation

0.35%
Annual Degradation from Year 2-30

30-year Linear Performance Warranty


Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s)

Power Binning Tolerance: 0~ + 3%

Model	AIKO-A590-MAH72Mw		AIKO-A595-MAH72Mw		AIKO-A600-MAH72Mw		AIKO-A605-MAH72Mw		AIKO-A610-MAH72Mw		AIKO-A615-MAH72Mw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	590	444.0	595	448.0	600	452.0	605	456.0	610	459.0	615	463.0
V _{oc} [V]	53.79	50.80	53.89	50.89	53.99	50.99	54.09	51.08	54.19	51.18	54.29	51.27
V _{mp} [V]	44.48	42.01	44.58	42.10	44.68	42.19	44.78	42.29	44.88	42.38	44.98	42.48
I _{sc} [A]	14.03	11.34	14.11	11.41	14.20	11.48	14.28	11.55	14.36	11.61	14.44	11.68
I _{mp} [A]	13.27	10.59	13.35	10.65	13.43	10.72	13.52	10.79	13.60	10.85	13.68	10.91
Module Efficiency	22.8%		23.0%		23.2%		23.4%		23.6%		23.8%	

Mechanical Specification

Cell Type	N-Type BC
Front Cover Mono glass	3.2 mm tempered glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) ±350mm/±1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, 3 bypass diodes
Connector	AIKO-01C from Zhejiang Aiko Solar Technology Co., Ltd
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 _{sc}	+ 0.05%/ °C
Temperature Coefficient of V _{oc}	- 0.22%/ °C
Temperature Coefficient of P _{max}	- 0.26%/ °C

Installation Guide

T _{98 max}	70°C
Module Operation Temperature	-40°C - +85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
P _{max} and V _{oc} and I _{sc} Measurement 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 reserves right to update the specification without notice
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