








COMET

1N+ Dual-Glass Module
610W-630W

Technical Features:

-  Partial Shading Optimisation
-  Better Temperature Coefficient
-  High Temperature Restriction
-  Micro-crack Resistance
-  Higher Power
-  Lower BOS
-  More Aesthetic Values



reddot winner 2023



Product Warranty
(Extendable to 25years*)



Performance
Warranty



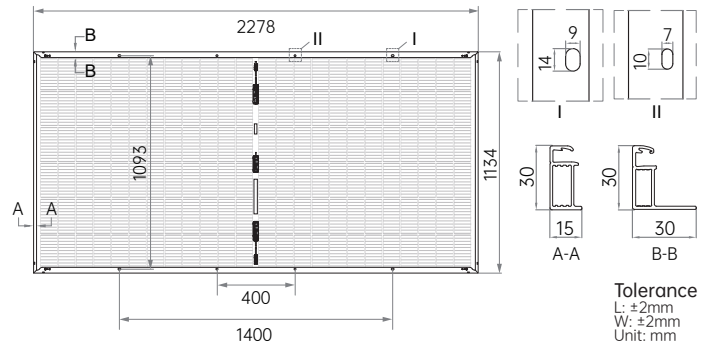
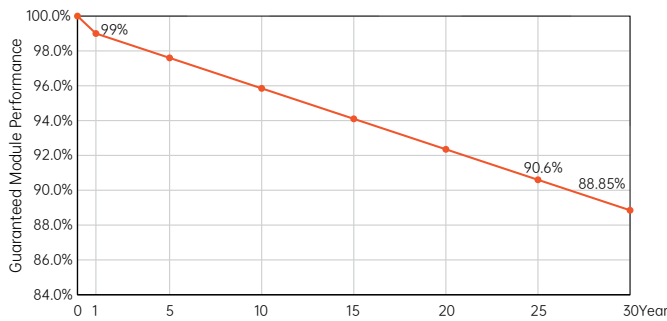
630W
Output

24.4%
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 Tolerance: 0~ +3%

Model	AIKO-A610-MAH72Dw		AIKO-A615-MAH72Dw		AIKO-A620-MAH72Dw		AIKO-A625-MAH72Dw		AIKO-A630-MAH72Dw	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	610	459	615	463	620	467	625	471	630	474
V _{oc} [V]	54.34	51.32	54.44	51.41	54.57	51.53	54.70	51.66	54.83	51.78
V _{mp} [V]	45.00	42.50	45.10	42.59	45.20	42.69	45.30	42.78	45.40	42.87
I _{sc} [A]	14.30	11.57	14.38	11.63	14.46	11.70	14.54	11.76	14.62	11.83
I _{mp} [A]	13.56	10.82	13.64	10.89	13.72	10.95	13.80	11.01	13.88	11.08
Module Efficiency	23.6%		23.8%		24.0%		24.2%		24.4%	

Mechanical Specification

Bifacial Factor	70±5%
Cell Type	N-Type ABC
Front Cover Mono glass	Dual glass, 2.0+2.0mm coated semi tempered glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) +350mm, -280mm/±1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 compatible/MC4-Evo2
Weight	32.5kg±3%
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

Operation Temperature	-40°C - +85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
V _{oc} and I _{sc} Tolerance	±3%
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	35 mm diameter hail at 27.2 m/s
Fire Rating	IEC Class C

