





# Comet 1N+ Dual-Glass Module

## 595W-625W


Second Generation  
Comprehensive Upgrade:

 **Partial Shading Optimisation**

 **Better Temperature Coefficient**

 **High Temperature Restriction**

 **Micro-crack Resistance**

 **Higher Power**

 **Lower BOS**

 **PFAS-free**



Product  
Warranty



Performance  
Warranty



reddot winner 2023

### 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  
(Made in China)



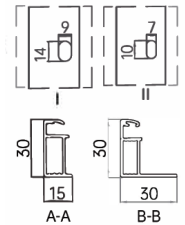
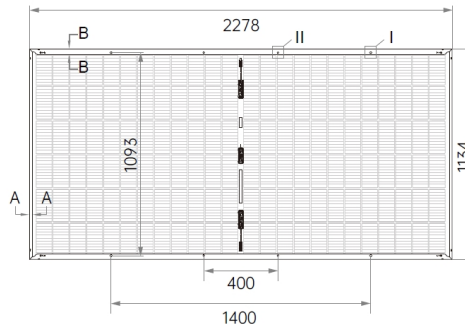
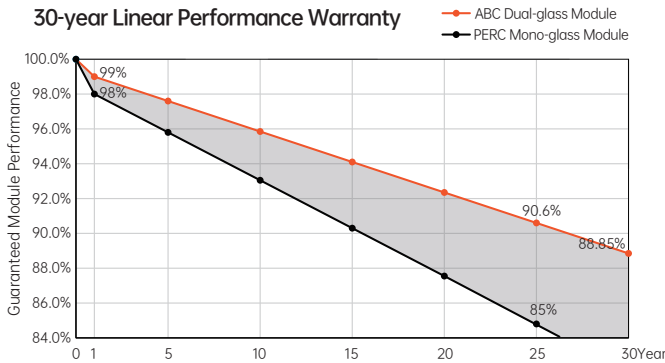
**625W**  
Output

**24.2%**  
Efficiency

**≤1%**  
First-year Degradation

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

**30-year Linear Performance Warranty**



Tolerance  
L: ±2mm  
W: ±2mm  
Unit: mm

**Electrical Characteristics** (STC: AM1.5 1000W/m<sup>2</sup> 25°C NOCT: AM1.5 800W/m<sup>2</sup> 20°C 1m/s) φVoc=97% φIsc=38% φPmax=39% Power Tolerance:0~+3%

Model	AIKO-A595-MAH72Dw		AIKO-A600-MAH72Dw		AIKO-A605-MAH72Dw		AIKO-A610-MAH72Dw		AIKO-A615-MAH72Dw		AIKO-A620-MAH72Dw	
Test Conditions	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
P <sub>max</sub> [W]	595	625	600	630	605	635	610	640	615	645	620	650
V <sub>oc</sub> [V]	54.04	54.13	54.14	54.23	54.24	54.33	54.34	54.43	54.44	54.53	54.57	54.63
V <sub>mp</sub> [V]	44.70	44.80	44.80	44.90	44.90	45.00	45.00	45.10	45.10	45.20	45.20	45.30
I <sub>sc</sub> [A]	14.06	14.68	14.14	14.76	14.22	14.84	14.30	14.92	14.38	15.00	14.46	15.08
I <sub>mp</sub> [A]	13.32	13.96	13.40	14.04	13.48	14.12	13.56	14.20	13.64	14.28	13.72	14.35
<b>Module Efficiency</b>	<b>23.0%</b>		<b>23.2%</b>		<b>23.4%</b>		<b>23.6%</b>		<b>23.8%</b>		<b>24.0%</b>	

Model	AIKO-A625-MAH72Dw	
Test Conditions	STC	BNPI
P <sub>max</sub> [W]	625	655
V <sub>oc</sub> [V]	54.70	54.73
V <sub>mp</sub> [V]	45.30	45.40
I <sub>sc</sub> [A]	14.54	15.16
I <sub>mp</sub> [A]	13.80	14.43
<b>Module Efficiency</b>	<b>24.2%</b>	

Note: Test uncertainty for P<sub>max</sub>: ±3%

**Mechanical Specification**

Cell Type	N-Type ABC
Glass	Dual glass, 2.0+2.0mm coated semi 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, three bypass diodes
Connector	MC4 EVOA/MC4 EVO2
Weight	30.4kg±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 <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

