



Comet 1N

Mono-Glass Module

605W-630W

Second Generation
Comprehensive Upgrade:

 **Partial Shading Optimisation**

 **Better Temperature Coefficient**

 **High Temperature Restriction**

 **Micro-crack Resistance**

 **Higher Power**

 **Lower BOS**



Product
Warranty



Performance
Warranty



reddot winner 2023



Munich RE

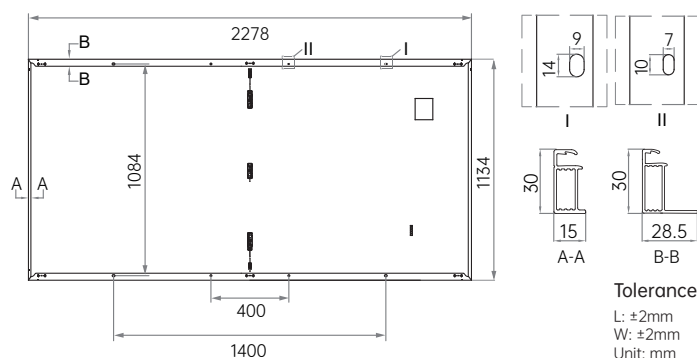
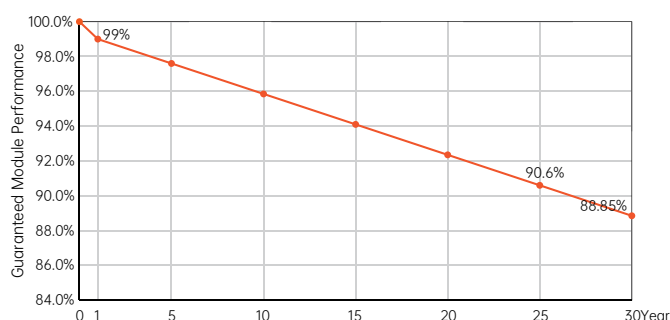


630W
Output

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-A605-MAH72Mw		AIKO-A610-MAH72Mw		AIKO-A615-MAH72Mw		AIKO-A620-MAH72Mw		AIKO-A625-MAH72Mw		AIKO-A630-MAH72Mw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	605	456	610	459	615	463	620	467	625	471	630	474
V _{oc} [V]	54.09	51.08	54.19	51.18	54.29	51.27	54.39	51.36	54.49	51.46	54.59	51.55
V _{mp} [V]	44.78	42.29	44.88	42.38	44.98	42.48	45.08	42.57	45.18	42.67	45.28	42.76
I _{sc} [A]	14.28	11.55	14.36	11.61	14.44	11.68	14.52	11.74	14.60	11.81	14.68	11.87
I _{mp} [A]	13.52	10.79	13.60	10.85	13.68	10.91	13.76	10.98	13.84	11.04	13.92	11.11
Module Efficiency	23.4%		23.6%		23.8%		24.0%		24.2%		24.4%	

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, -280mm/±1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68,3 bypass diodes
Connector	MC4 compatible/MC4-Evo2
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

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	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
DSDr_EN_2404_V1.2

