

# COMET

3N72e Mono-glass Module  
625W-650W

## Technical Features:

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



reddot winner 2023



Product Warranty  
(Extendable to 25years\*)



Performance  
Warranty



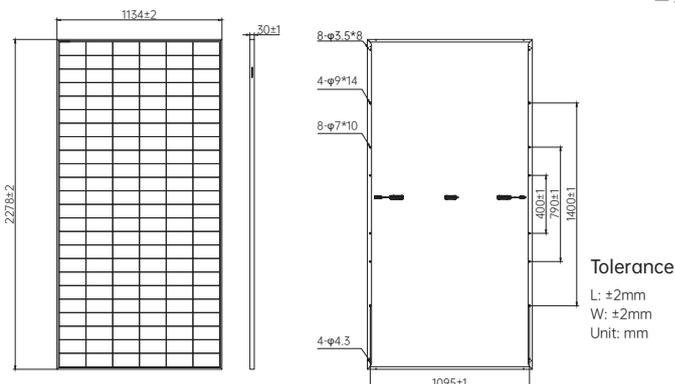
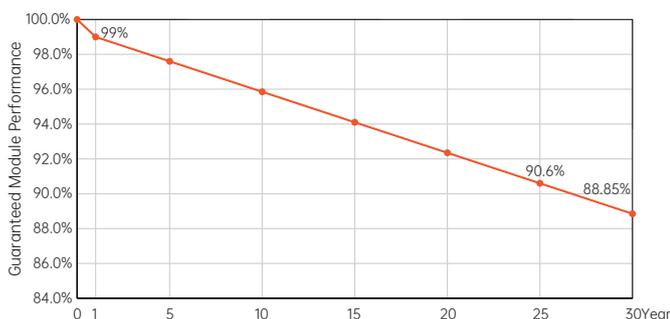
**650W**  
Output

**25.2%**  
Efficiency

**≤1%**  
First-year Degradation

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

**30-year Linear Performance Warranty**



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

Module Type	AIKO-A625-MAE72Mw		AIKO-A630-MAE72Mw		AIKO-A635-MAE72Mw		AIKO-A640-MAE72Mw		AIKO-A645-MAE72Mw		AIKO-A650-MAE72Mw	
	STC	NOCT										
P <sub>max</sub> [W]	625	471	630	474	635	478	640	482	645	486	650	490
V <sub>oc</sub> [V]	54.49	51.46	54.59	51.55	54.69	51.65	54.79	51.74	54.89	51.84	54.99	51.93
V <sub>mp</sub> [V]	45.18	42.67	45.28	42.76	45.38	42.86	45.48	42.95	45.58	43.04	45.68	43.14
I <sub>sc</sub> [A]	14.60	11.81	14.68	11.87	14.76	11.94	14.84	12.00	14.92	12.06	15.00	12.13
I <sub>mp</sub> [A]	13.84	11.04	13.92	11.11	14	11.17	14.08	11.23	14.16	11.3	14.23	11.36
<b>Module Efficiency</b>	<b>24.2%</b>		<b>24.4%</b>		<b>24.6%</b>		<b>24.8%</b>		<b>25.0%</b>		<b>25.2%</b>	

**Product Specification**

Cell type	N-Type ABC
Glass	3.2 mm tempered glass
Backsheet	High weather resistant backsheet
Frame	Anodized aluminum
Cable	4mm <sup>2</sup> (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±3%
Dimension	2278*1134*30mm
Package Detail	37pcs per pallet / 185pcs per 20'GP / 740pcs 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
Maximum System Voltage	DC1500V
Maximum Static Loading	+5400Pa/-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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