









COMET

3N+72e Dual-glass Module
620W-645W

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



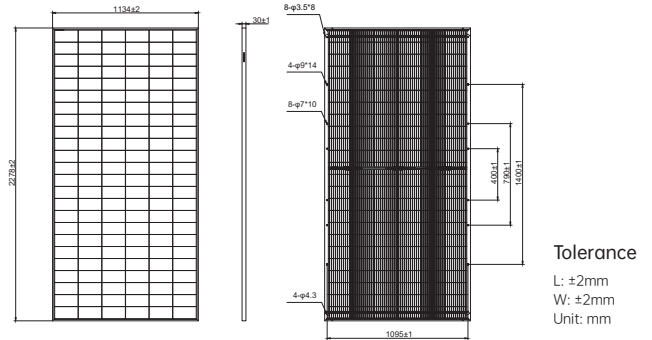
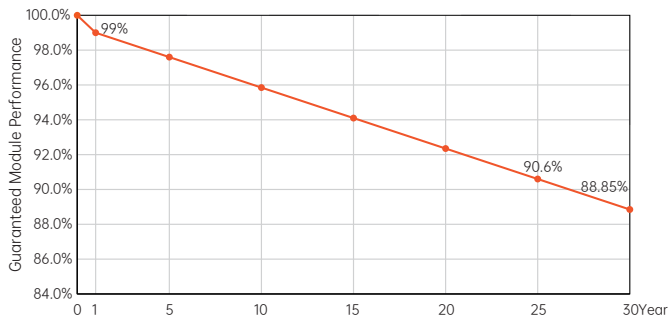
645W
Output

25.0%
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%

Module Type	AIKO-A620-MAE72Dw		AIKO-A625-MAE72Dw		AIKO-A630-MAE72Dw		AIKO-A635-MAE72Dw		AIKO-A640-MAE72Dw		AIKO-A645-MAE72Dw	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	620	467	625	471	630	474	635	478	640	482	645	486
V_{oc} [V]	54.57	51.53	54.70	51.66	54.83	51.78	54.96	51.90	55.09	52.03	55.22	52.15
V_{mp} [V]	45.20	42.69	45.30	42.78	45.40	42.87	45.50	42.97	45.60	43.06	45.70	43.16
I_{sc} [A]	14.46	11.70	14.54	11.76	14.62	11.83	14.70	11.89	14.78	11.96	14.86	12.02
I_{mp} [A]	13.72	10.95	13.8	11.01	13.88	11.08	13.96	11.14	14.04	11.2	14.12	11.27
Module Efficiency	24.0%		24.2%		24.4%		24.6%		24.8%		25.0%	

Product Specification

Cell type	N-Type ABC
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	31.5kg±3%
Dimension	2278*1134*30mm
Package Detail	37pcs per pallet / 185pcs per 20GP / 740pcs 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
Maximum System Voltage	DC1500V
Maximum Static Loading	+5400Pa/-2400Pa
Hail Test	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class C

