










Stellar 1N+ Dual-glass Bifacial

620W-640W

 **Higher Power**
Lower LCOE

-  Partial Shading Optimisation
-  High Temperature Restriction
-  Micro-crack Resistance
-  PFAS-free

Optional

-  Anti-corrosion Frame
-  Waterproof Encapsulation
-  Waterproof Cap



Product
Warranty



Performance
Warranty



reddot winner 2023



Munich RE

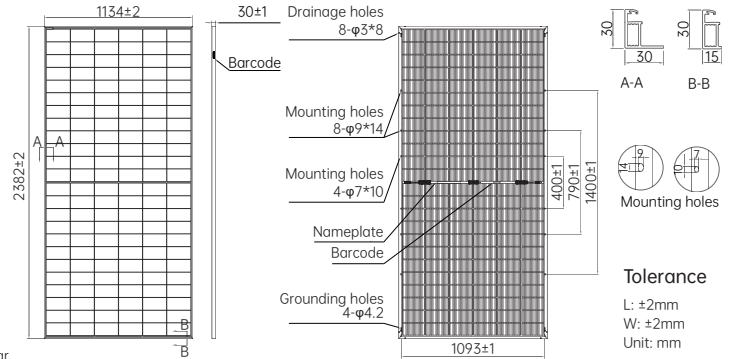
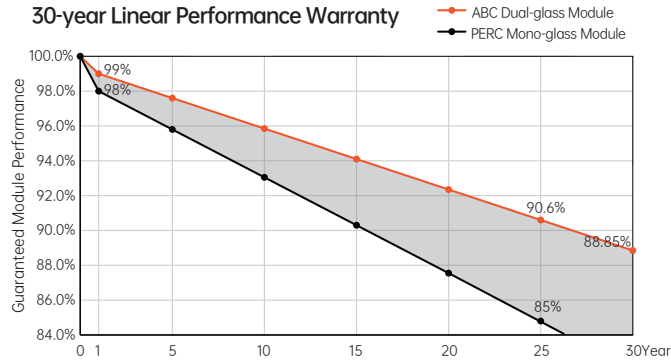


640W
Output

23.7%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30



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-G620-MCH72Dw		AIKO-G625-MCH72Dw		AIKO-G630-MCH72Dw		AIKO-G635-MCH72Dw		AIKO-G640-MCH72Dw	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	620	467	625	471	630	474	635	478	640	482
V _{oc} [V]	53.90	50.90	54.00	51.00	54.10	51.09	54.20	51.18	54.30	51.28
V _{mp} [V]	44.71	42.22	44.81	42.32	44.91	42.41	45.01	42.51	45.11	42.60
I _{sc} [A]	14.72	11.90	14.78	11.95	14.84	12.00	14.90	12.05	14.96	12.10
I _{mp} [A]	13.87	11.07	13.95	11.13	14.03	11.20	14.11	11.26	14.19	11.33
Module Efficiency	23.0%		23.1%		23.3%		23.5%		23.7%	

Mechanical Specification

Bifacial Factor	65±5%
Cell Type	N-Type ABC
Glass	Dual glass, 2.0 + 2.0mm Heat Strengthened Glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) +300mm,-200mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68,3 bypass diodes
Connector	MC4 compatible
Weight	33.5kg
Dimension	2382*1134*30mm
Package Detail	36pcs per pallet / 144pcs 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	30A
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
AEWHS_EN_V5.4