











# Stellar 1N+ Dual-glass Bifacial

## 635W-655W

 **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

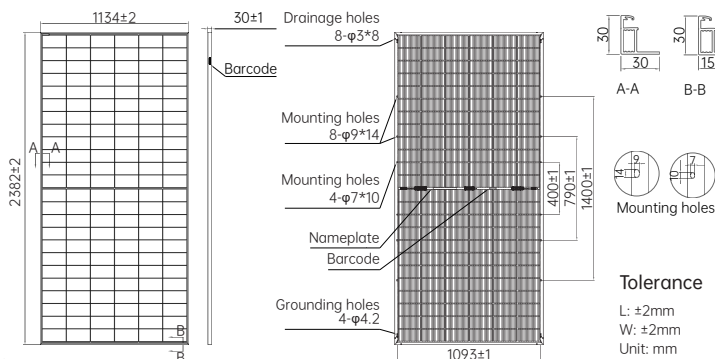
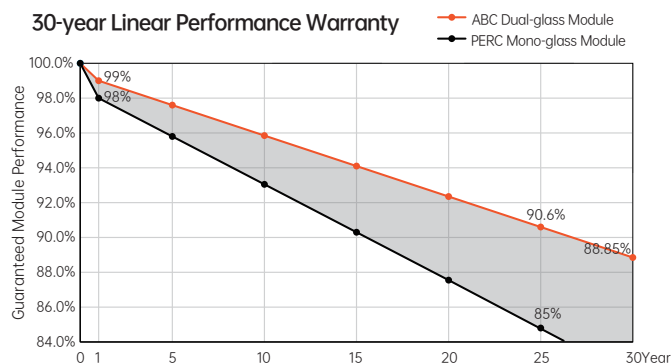


**655W**  
Output

**24.2%**  
Efficiency

**≤1%**  
First-year Degradation

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



### 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-G635-MCH72Dw		AIKO-G640-MCH72Dw		AIKO-G645-MCH72Dw		AIKO-G650-MCH72Dw		AIKO-G655-MCH72Dw	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P <sub>max</sub> [W]	635	478	640	482	645	486	650	490	655	493
V <sub>oc</sub> [V]	54.20	51.18	54.30	51.28	54.40	51.37	54.50	51.47	54.60	51.56
V <sub>mp</sub> [V]	45.01	42.51	45.11	42.60	45.21	42.70	45.31	42.79	45.41	42.89
I <sub>sc</sub> [A]	14.90	12.05	14.96	12.10	15.02	12.15	15.08	12.60	15.14	12.24
I <sub>mp</sub> [A]	14.11	11.26	14.19	11.33	14.27	11.39	14.35	11.46	14.43	11.51
<b>Module Efficiency</b>	<b>23.5%</b>		<b>23.7%</b>		<b>23.9%</b>		<b>24.1%</b>		<b>24.2%</b>	

### 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 <sup>2</sup> (IEC) 12AWG(UL) 350mm 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 <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	30A
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

