

# STELLAR

Draft

3N+72 Dual-Glass Bifacial Module  
655W-685W

## 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



Performance Warranty



IEC 61215 IEC 61730  
2014/35/EU



ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

Warranty partner

Munich RE 

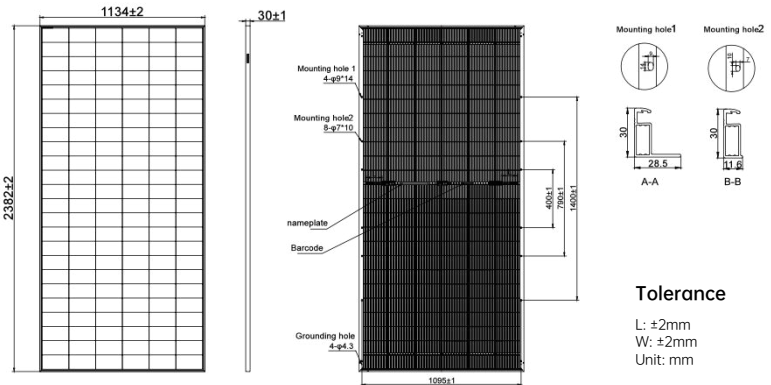
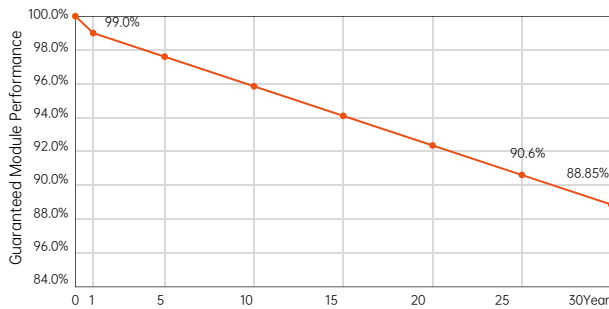
**685W**  
Output

**25.4%**  
Efficiency

**≤1%**  
First-year Degradation

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

30-year Linear Performance Warranty



Electrical Characteristics (STC: AM1.5 1000W/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-A655-MDE72Dw		AIKO-A660-MDE72Dw		AIKO-A665-MDE72Dw		AIKO-A670-MDE72Dw		AIKO-A675-MDE72Dw		AIKO-A680-MDE72Dw		AIKO-A685-MDE72Dw	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P <sub>max</sub> [W]	655	496	660	500	665	504	670	508	675	512	680	515	685	519
V <sub>oc</sub> [V]	54.10	51.33	54.20	51.42	54.40	51.61	54.60	51.80	54.80	51.99	55.00	52.18	55.20	52.37
V <sub>mp</sub> [V]	45.40	43.07	45.50	43.17	45.60	43.26	45.70	43.36	45.80	43.45	45.90	43.55	46.00	43.64
I <sub>sc</sub> [A]	15.12	12.22	15.18	12.27	15.24	12.31	15.30	12.36	15.36	12.41	15.42	12.46	15.48	12.51
I <sub>mp</sub> [A]	14.43	11.54	14.51	11.60	14.59	11.66	14.67	11.72	14.74	11.79	14.82	11.85	14.90	11.91
<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>		<b>25.4%</b>	

Product Specification

Cell Type	N-Type ABC
Glass	Dual glass, 2.0 + 2.0mm coated semi tempered glass
Frame	Anodized aluminum
Cable	4mm <sup>2</sup> (IEC) 12AWG(UL) +400mm, -200mm/±1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 Compatible/MC4-EVO2A
Weight	32.2kg±3%
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 - +70°C
Maximum Series Fuse Rating	30A
Protection Class	Class II
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 A



www.aikosolar.com  
marketing@aikosolar.com



\*AIKO reserves right to update the specification without notice  
\*Optional Munich Re coverage is available upon request  
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