

STELLAR

3N+72 Dual-Glass Module

655W-675W

Technical Features:

 Partial Shading Optimisation

 Better Temperature Coefficient

 High Temperature Restriction

 Micro-crack Resistance

 Higher Power

 Lower BOS

 More Aesthetic Values

 Infinite Technology



red dot winner 2023



Product
Warranty



Performance
Warranty



Warranty partner

Munich RE

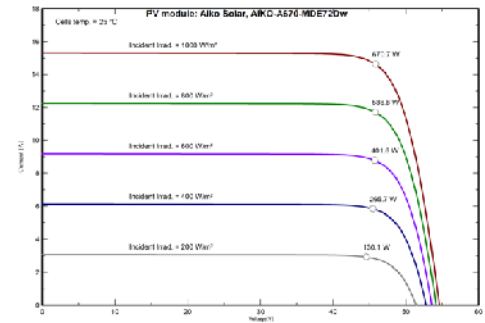
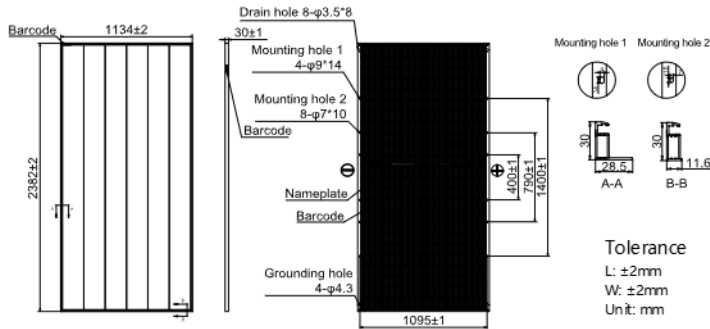


675W
Output

25.0%
Efficiency

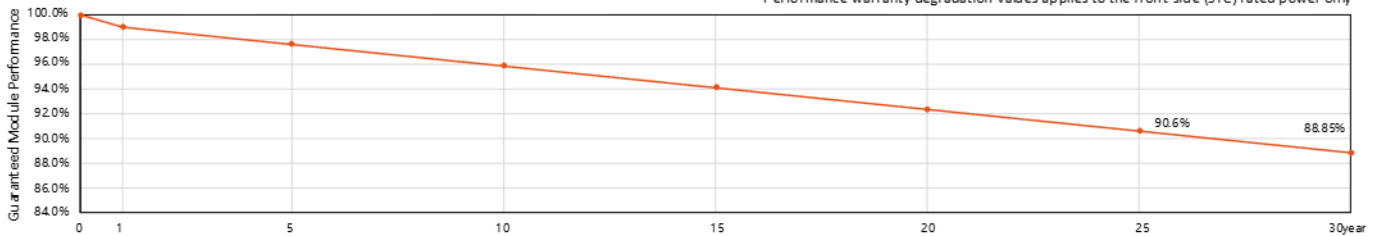
≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30



30-year Linear Performance Warranty

*Performance warranty degradation values applies to the front-side (STC) rated power only



Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s BNPI: front 1000W/m²+ rear 135W/m²)													P _{max} , I _{sc} & V _{oc} Measurement Tolerance: ±3%		
Module Type	AIKO-A655-MDE72Dw			AIKO-A660-MDE72Dw			AIKO-A665-MDE72Dw			AIKO-A670-MDE72Dw			AIKO-A675-MDE72Dw		
Test Conditions	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P _{max} [W]	655	496	690	660	500	695	665	504	700	670	508	705	675	512	710
V _{oc} [V]	54.10	51.33	54.10	54.20	51.42	54.20	54.40	51.61	54.40	54.60	51.80	54.60	54.80	51.99	54.80
V _{mp} [V]	45.40	43.07	45.40	45.50	43.17	45.50	45.60	43.26	45.60	45.70	43.36	45.70	45.80	43.45	45.80
I _{sc} [A]	15.12	12.22	15.94	15.18	12.27	16.00	15.24	12.31	16.06	15.30	12.36	16.12	15.36	12.41	16.18
I _{mp} [A]	14.43	11.54	15.21	14.51	11.60	15.29	14.59	11.66	15.38	14.67	11.72	15.46	14.74	11.79	15.54
Module Efficiency	24.2%			24.4%			24.6%			24.8%			25.0%		

Bifacial Gain Electrical Characteristics (5% & 10%)							φPmax: 40%±5%, φVoc: 98%±5%, φIsc : 45%±5%				
Module Type	AIKO-A655-MDE72Dw		AIKO-A660-MDE72Dw		AIKO-A665-MDE72Dw		AIKO-A670-MDE72Dw		AIKO-A675-MDE72Dw		
Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	
Pmax [W]	688	721	693	726	698	732	704	737	709	743	
Voc [V]	54.10	54.10	54.20	54.20	54.40	54.40	54.60	54.60	54.80	54.80	
Vmp [V]	45.40	45.40	45.50	45.50	45.60	45.60	45.70	45.70	45.80	45.80	
Isc [A]	15.88	16.63	15.94	16.70	16.00	16.76	16.07	16.83	16.13	16.90	
Imp [A]	15.15	15.87	15.24	15.96	15.32	16.05	15.40	16.137	15.48	16.21	
Short Circuit Current @ BS1: 16.74±3% (BS1 Test condition: front irradiance 1000 W/m², rear irradiance 300 W/m²)											

Short Circuit Current @ BSI: 16.74±3% (BSI Test condition: front irradiance 1000 W/m², rear irradiance 300 W/m²)

Product Specification

Cell Type	N-Type ABC
Glass	Dual glass, 2.0 + 2.0mm coated semi tempered glass
Frame	Anodized aluminum
Cable	4mm²(IEC) 12AWG(UL) - 400mm, -200mm/±1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, 3 bypass diodes
Connector	Stäubli Electrical Connectors AG – MC4-EVO2 series PV-KST4-EVO2, PV-KBT4-EVO2 or AIKO-01C (Zhejiang Aiko Solar Technology Co., Ltd.). Refer to the module label for the full connector model designation.
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 _{sc}	+ 0.05%/ °C
Temperature Coefficient of V _{oc}	- 0.22%/ °C
Temperature Coefficient of P _{max}	- 0.26%/ °C

Installation Guide

T ₃₅ max	70°C
Operation Temperature	-40°C to +70°C
Maximum Series Fuse Rating	30A
Protection Class	Class II
Maximum System Voltage	DC1500V
Maximum Static Loading	Front +5400Pa Back -2400Pa
Hail Test	35 mm diameter hail at 27.2 m/s
Fire Rating	IEC Class A