



STELLAR


2N+78 Dual-Glass Module

765W-785W


Technical Features :

 Partial Shading Optimisation

 Better Temperature Coefficient

 High Temperature Restriction

 Micro-crack Resistance

 Higher Power

 Lower BOS

 More Aesthetic Values



red dot winner 2023




Product Warranty



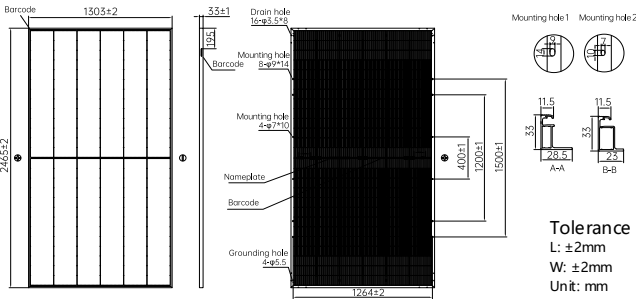
Performance Warranty



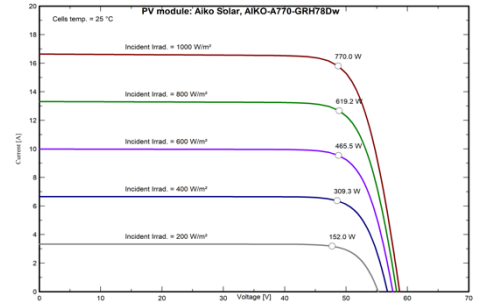
Warranty partner

Munich RE 

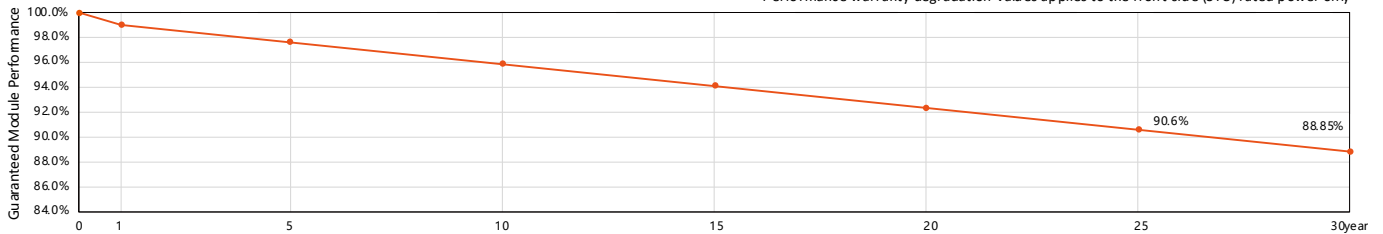
785W
Output
24.4%
Efficiency
≤1%
First-year Degradation
≤0.35%
Annual Degradation from Year 2-30



Tolerance
L: ±2mm
W: ±2mm
Unit: mm



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 BSI: 1000W/m²+*300W/m²)

P_{max} Measurement Tolerance: ±3%
I_{sc} & V_{oc} Measurement Tolerance: ±5%
Power Binning Tolerance: 0-+3%

Module Type	AIKO-A765-GRH78Dw			AIKO-A770-GRH78Dw			AIKO-A775-GRH78Dw			AIKO-A780-GRH78Dw			AIKO-A785-GRH78Dw		
	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P _{max} [W]	765	580	840	770	584	845	775	588	850	780	592	855	785	595	860
V _{oc} [V]	58.62	55.58	58.62	58.72	55.68	58.72	58.82	55.77	58.82	58.92	55.87	58.92	59.02	55.96	59.02
V _{mp} [V]	48.67	46.27	48.70	48.77	46.36	48.80	48.87	46.46	48.90	48.97	46.55	49.00	49.07	46.65	49.10
I _{sc} [A]	16.57	13.34	18.18	16.64	13.40	18.26	16.71	13.46	18.34	16.78	13.53	18.42	16.85	13.59	18.50
I _{mp} [A]	15.72	12.54	17.25	15.79	12.60	17.32	15.86	12.65	17.38	15.93	12.71	17.45	16.00	12.76	17.52
Module Efficiency	23.8%			24.0%			24.1%			24.3%			24.4%		

Bifacial Gain Electrical Characteristics (5% & 10%)

φP_{max}: 70%±5%, φV_{oc}: 99%±5%, φI_{sc}: 75%±5%

Module Type	AIKO-A765-GRH78Dw		AIKO-A770-GRH78Dw		AIKO-A775-GRH78Dw		AIKO-A780-GRH78Dw		AIKO-A785-GRH78Dw	
Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
P _{max} [W]	803	842	809	847	814	853	819	858	824	864
V _{oc} [V]	48.67	48.67	58.72	58.72	58.82	58.82	58.92	58.92	59.02	59.02
V _{mp} [V]	16.57	16.57	48.77	48.77	48.87	48.87	48.97	48.97	49.07	49.07
I _{sc} [A]	17.40	18.23	17.47	18.30	17.55	18.38	17.62	18.46	17.69	18.36
I _{mp} [A]	16.51	17.29	16.58	17.37	16.65	17.45	16.73	17.52	16.8	17.6

Short Circuit Current @ BSI: 19.86±3% (BSI Test condition: front irradiance 1000 W/m², rear irradiance 300 W/m²)

Product Specification

Bifacial Factor	70±5%
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 or Customized Length
No. of Cells	156(6*26)
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	39.8kg±3%
Dimension	2465*1303*33mm
Package Detail	33pcs per pallet / 132pcs per 20'GP / 594pcs 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 ₉₈ 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	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class A



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Made in China

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