STELLAR

1N+ Dual-Glass Module
635W-660W

AIKO

Technical Features:

- Partial Shading Optimisation
- Better Temperature Coefficient
- High Temperature Restriction
- Micro-crack Resistance
- Higher Power
- Lower BOS
- More Aesthetic Values

ESG ENVIRONMENT AWARD 2023/24
Shanghai AIKO Energy Co., Ltd.

inter solar award 2023 WINNER

reddot winner 2023

15 year Product Warranty (Extendable to 25years*)

30 year Performance Warranty

CE

TÜVRheinland

Munich RE

Stellar 1N+

660W	**24.4%**	**≤1%**	**≤0.35%**
Output	Efficiency	First-year Degradation	Annual Degradation from Year 2-30

30-year Linear Performance Warranty

Tolerance
L: ±2mm
W: ±2mm
Unit: mm
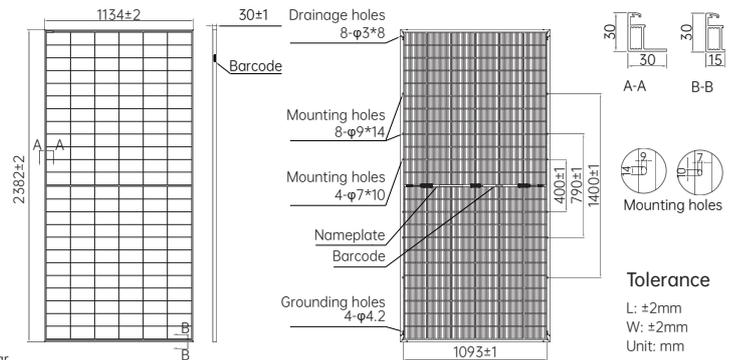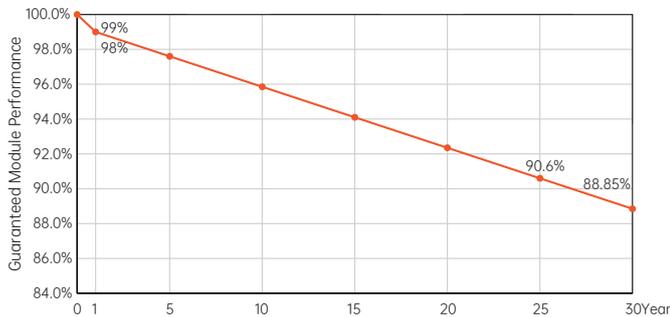
Electrical Characteristics (STC: AM1.5 1000W/m² 25℃ NOCT: AM1.5 800W/m² 20℃ 1m/s)

Power Tolerance:0~ + 3%

Module Type	AIKO-G635-MCH72Dw		AIKO-G640-MCH72Dw		AIKO-G645-MCH72Dw		AIKO-G650-MCH72Dw		AIKO-G655-MCH72Dw		AIKO-G660-MCH72Dw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	635	481	640	485	645	489	650	493	655	496	660	500
V_{oc} [V]	54.70	50.95	53.80	51.04	53.90	51.14	54.00	51.23	54.10	51.33	54.20	51.42
V_{mp} [V]	45.00	42.69	45.10	42.79	45.20	42.88	45.30	42.98	45.40	43.07	45.50	43.17
I_{sc} [A]	14.88	12.02	14.94	12.07	15.00	12.12	15.06	12.17	15.12	12.22	15.18	12.27
I_{mp} [A]	14.12	11.29	14.20	11.35	14.27	11.41	14.35	11.48	14.43	11.54	14.51	11.60
Module Efficiency	23.5%		23.7%		23.9%		24.1%		24.2%		24.4%	

Mechanical Specification

Bifacial Factor	70±5%
Cell Type	N-Type ABC
Glass	Dual glass, 2.0 + 2.0mm Heat Strengthened Glass
Frame	Anodized aluminum
Cable	4mm²(IEC) 12AWG(UL) +350mm, -280mm/±1400mm or Customized Length
No. of Cells	144(6*24)
Junction Box	IP68, 3 bypass diodes
Connector	MC4 Compatible/MC4-Evo2
Weight	33.5kg±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

Operation Temperature	-40℃ - +85℃
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	35 mm diameter hail at 27.2 m/s
Fire Rating	IEC Class C

AIKO

www.aikosolar.com
marketing@aikosolar.com