

STELLAR

1N+66 Dual-Glass Module

640W-660W

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



Made in China

660W

Output

24.4%

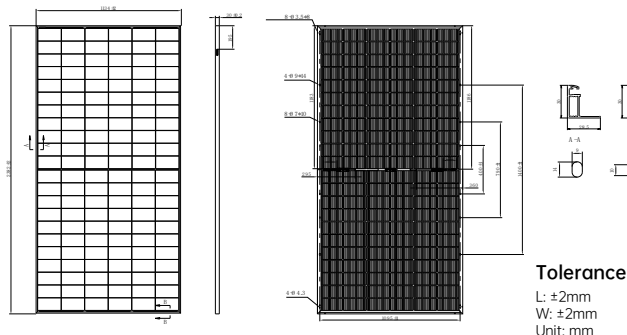
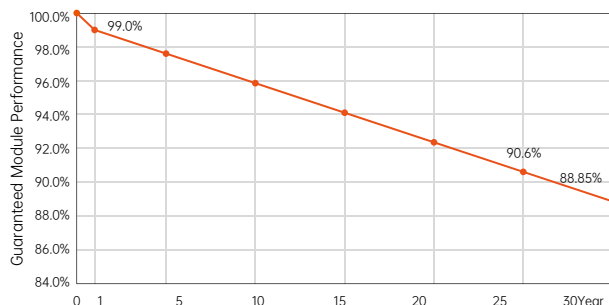
Efficiency

1%

First-year Degradation

0.35%

Annual Degradation from Year 2-30

30-year Linear Performance Warranty
Electrical Characteristics (STC: AM1.5 1000W/m² 25°C BNPI: AM1.5, front 1000W/m², rear 135W/m², 25°C) $\phi V_{oc}=98\pm5\%$ $\phi I_{sc}=57\pm5\%$ $\phi P_{max}=55\pm5\%$
Power Binning Tolerance: 0~+3%

Module Type	AIKO-A640-GRH66Dw		AIKO-A645-GRH66Dw		AIKO-A650-GRH66Dw		AIKO-A655-GRH66Dw		AIKO-A660-GRH66Dw	
Test Conditions	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
$P_{max}[W]$	640	690	645	695	650	700	655	705	660	710
$V_{oc}[V]$	49.10	49.10	49.20	49.20	49.30	49.30	49.40	49.40	49.50	49.50
$V_{mp}[V]$	41.80	41.80	41.90	41.90	42.00	42.00	42.10	42.10	42.20	42.20
$I_{sc}[A]$	16.48	17.62	16.55	17.69	16.62	17.76	16.69	17.83	16.76	17.90
$I_{mp}[A]$	15.32	16.51	15.40	16.59	15.48	16.67	15.56	16.75	15.65	16.83
Module Efficiency	23.7%		23.9%		24.1%		24.2%		24.4%	

Electrical characteristics with different power bin (reference to 5% & 10% backside power gain)

Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
$P_{max} [W]$	672	704	677	710	683	715	688	721	693	726
$V_{oc} [V]$	49.10	49.10	49.20	49.20	49.30	49.30	49.40	49.40	49.50	49.50
$V_{mp} [V]$	41.80	41.80	41.90	41.90	42.00	42.00	42.10	42.10	42.20	42.20
$I_{sc} [A]$	17.30	18.13	17.38	18.21	17.45	18.28	17.52	18.36	17.60	18.44
$I_{mp} [A]$	16.09	16.85	16.17	16.94	16.25	17.03	16.34	17.12	16.43	17.22

Product Specification

Cell Type	N-Type ABC
Glass	Dual glass, 2.0 + 2.0mm coated semi-tempered glass
Frame	Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) ±400mm, -200mm/±1400mm or Customized Length
No. of Cells	132(6*22)
Junction Box	IP68, 3 bypass diodes
Connector	AIKO-01C from Zhejiang Aiko Solar Technology Co., Ltd.
Weight	32.5kg±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

$T_{98} \max$	70°C
Module Operation Temperature	-40°C - +85°C
Maximum Series Fuse Rating	30A
Protection Class	Class II
P_{max} and V_{oc} and I_{sc} 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 A

