

NEOSTAR

2S+ Dual-Glass Module
440W-475W

Technical Features:

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



red dot winner 2023



Product
Warranty



Performance
Warranty



Warranty partner

Munich RE



Made in China

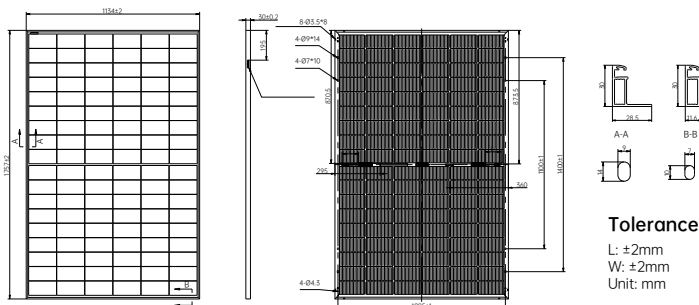
Output

Efficiency

First-year Degradation

Annual Degradation from Year 2-30

Year	Guaranteed Module Performance (%)
0	100.0
1	99.0
5	98.0
10	96.0
15	94.0
20	92.0
27	90.6
30	88.85



$\phi_{Voc}=97\%\pm 5\%$ $\phi_{Isc}=38\%\pm 5\%$ $\phi_{Pmax}=39\%\pm 5\%$
Power Binning Tolerance: 0~+3%

Power Binning Tolerance: 0-4%								
Module Type	AIKO-A455-MAH54Db		AIKO-A460-MAH54Db		AIKO-A465-MAH54Db		AIKO-A470-MAH54Db	
Test Conditions	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
P _{max} [W]	455	475	460	480	465	485	470	490
V _{oc} [V]	41.00	41.00	41.06	41.06	41.12	41.12	41.18	41.18
V _{mp} [V]	34.56	34.56	34.62	34.62	34.68	34.68	34.74	34.74
I _{sc} [A]	14.22	14.83	14.25	14.93	14.29	15.03	14.32	15.13
I _{mp} [A]	13.17	13.75	13.29	13.87	13.41	13.99	13.54	14.11
Module Efficiency	22.8%		23.1%		23.3%		23.6%	

Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%
Pmax [W]	478	501	483	506	488	512	494	517
Voc [V]	41.00	41.00	41.06	41.06	41.12	41.12	41.18	41.18
Vmp [V]	34.56	34.56	34.62	34.62	34.68	34.68	34.74	34.74
Isc [A]	14.93	15.64	14.96	15.68	15.00	15.72	15.04	15.75
Imp [A]	13.83	14.49	13.95	14.62	14.08	14.75	14.22	14.89

Cell Type	N-Type BC
Glass	Dual glass, 2.0 + 2.0mm coated semi tempered glass
Frame	Black Anodized aluminum
Cable	4mm²(IEC) 12AWG(UL) ±1200mm
No. of Cells	108(6*18)
Junction Box	IP68, 3 bypass diodes
Connector	PV-KST4-EVO 2A/6I/ PV-KBT4-EVO 2A/6I from Staubli ElectricalConnectors AG
Weight	24.2kg±3%
Dimension	1757*1134*30mm
Package Detail	37pcs per pallet / 222pcs per 20'GP / 962pcs per 40'HC

Temperature Coefficient of I_{sc}	+ 0.05%/ °C
Temperature Coefficient of V_{oc}	- 0.22%/ °C
Temperature Coefficient of P_{max}	- 0.26%/ °C

T ₉₈ max	70°C
Module Operation Temperature	-40°C - +85°C
Maximum Series Fuse Rating	25A
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	35mm diameter hail at 27.2m/s
Fire Rating	IEC Class A



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*AIKO reserves right to update the specification without notice
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