








NEOSTAR

2S Mono-Glass Module

415W-445W

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



Munich RE 

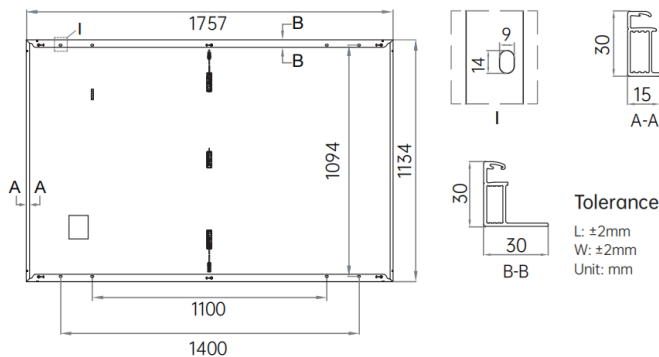
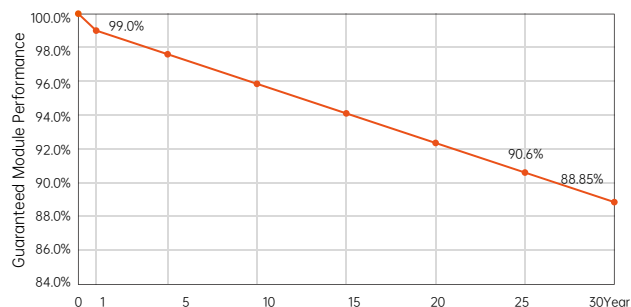
445W
Output

22.3%
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 NOCT: AM1.5 800W/m² 20°C 1m/s) Power Tolerance: 0~ + 3%

Module Type	AIKO-A415-MAH54Mb		AIKO-A420-MAH54Mb		AIKO-A425-MAH54Mb		AIKO-A430-MAH54Mb		AIKO-A435-MAH54Mb		AIKO-A440-MAH54Mb		AIKO-A445-MAH54Mb	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	415	331	420	335	425	339	430	343	435	346	440	350	445	354
V _{oc} [V]	39.60	38.55	39.70	38.60	39.80	38.66	39.90	38.72	40.00	38.77	40.10	38.83	40.20	38.89
V _{mp} [V]	33.36	32.47	33.46	32.52	33.56	32.58	33.66	32.64	33.76	32.69	33.86	32.75	33.96	32.81
I _{sc} [A]	13.30	11.26	13.36	11.34	13.42	11.42	13.48	11.50	13.54	11.52	13.60	11.55	13.66	11.58
I _{mp} [A]	12.44	10.22	12.55	10.32	12.67	10.41	12.78	10.51	12.89	10.61	13.00	10.71	13.10	10.80
Module Efficiency	20.8%		21.1%		21.3%		21.6%		21.8%		22.1%		22.3%	

Product Specification

Cell Type	N-Type ABC
Front Cover Mono glass	3.2 mm tempered glass
Frame	Black Anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) ±1200mm
No. of Cells	108(6*18)
Junction Box	IP68, 3 bypass diodes
Connector	MC4-Evo2
Weight	21.5kg±3%
Dimension	1757*1134*30mm
Package Detail	36pcs per pallet / 216pcs per 20'GP / 936pcs 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°C - +85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
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 C



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*AIKO reserves right to update the specification without notice
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