AIKO

Neostar 2S Mono-Glass Module
445W-470W

Second Generation Comprehensive Upgrade:

- **Partial Shading Optimisation**
- **Better Temperature Coefficient**
- **High Temperature Restriction**
- **Micro-crack Resistance**

- Higher Power
- Lower BOS
- No Front Grid Design

25 year Product Warranty

30 year Performance Warranty

ESG Leadership Awards 2023/24

inter solar award 2023 WINNER

reddot winner 2023

Complete Set of Quality Management System

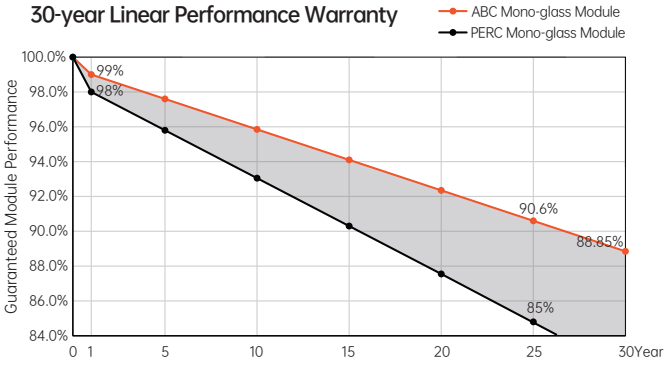
IEC 61730 (2023) IEC 61215 (2021)
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System
ISO 45001:2018 Occupational Safety and Management System
(Made in China)

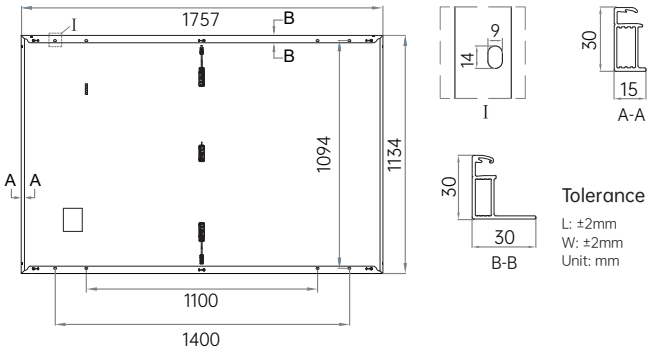
Munich RE CE TÜVRheinland

Neostar 2S

AIKO-A-MAH54Mb

470W Output | **23.6%** Efficiency | **⩽1%** First-year Degradation | **⩽0.35%** Annual Degradation from Year 2-30





Electrical Characteristics (STC: AM1.5 1000W/m² 25℃ NOCT: AM1.5 800W/m² 20℃ 1m/s)

Power Sorting Tolerance:0~ + 3%

Model	AIKO-A445-MAH54Mb		AIKO-A450-MAH54Mb		AIKO-A455-MAH54Mb		AIKO-A460-MAH54Mb		AIKO-A465-MAH54Mb		AIKO-A470-MAH54Mb	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	445	335	450	339	455	343	460	346	465	350	470	354
V_{oc} [V]	40.88	38.60	40.94	38.66	41.00	38.72	41.06	38.77	41.12	38.83	41.18	38.89
V_{mp} [V]	34.44	32.52	34.50	32.58	34.56	32.64	34.62	32.69	34.68	32.75	34.74	32.81
I_{sc} [A]	14.02	11.34	14.12	11.42	14.22	11.50	14.25	11.61	14.29	11.55	14.32	11.58
I_{mp} [A]	12.93	10.32	13.05	10.41	13.17	10.51	13.29	10.41	13.41	10.71	13.54	10.80
Module Efficiency	**22.3%**		**22.6%**		**22.8%**		**23.1%**		**23.3%**		**23.6%**	

Mechanical Specification

Cell Type	N-Type ABC
Front Cover Mono glass	3.2mm tempered glass
Frame	Black anodized aluminum
Cable	44mm²(IEC) 12AWG(UL) 1200mm or Customized Length
No. of Cells	108(6*18)
Junction Box	IP68, three bypass diodes
Connector	Staubli EVO2
Weight	21.5kg±3%
Dimension	1757*1134*30mm
Package Detail	36pcs per pallet/216 pcs per 20' GP/936pcs per 40' HQ

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	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	40 mm diameter hail at 27.5 m/s
Fire Rating	IEC Class C

Type your text

Zhejiang Aiko Solar Technology Co., Ltd.
www.aikosolar.com
marketing@aikosolar.com

*AIKO Energy reserves right to update the specification without notice

DS_EN_2405_V1.1

glow
HEATING • COOLING • ELECTRICAL

GLOW CITY
352 Morphett Road
Warradale SA 5046
8397 6100

GLOW SOUTH COAST
16 Wright Road
Goolwa SA 5214
8554 2860

info@glowhce.com.au | **glowhce.com.au**