

NEOSTAR

3S+54 Dual-Glass Module

470W-485W

Technical Features:

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



red dot winner 2023



Product
Warranty



Performance
Warranty



Warranty partner

Munich RE



Made in China

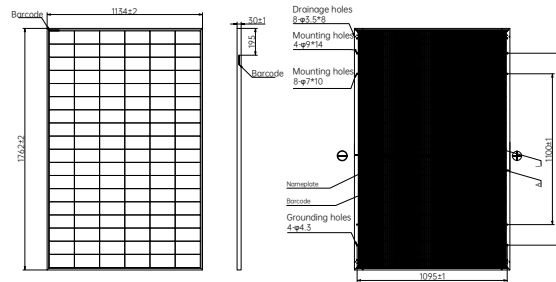
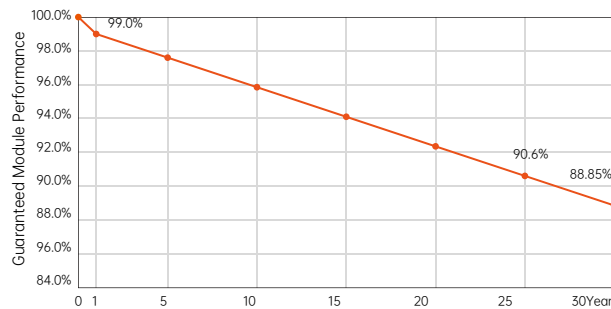
485W
Output

24.3%
Efficiency

1%
First-year Degradation

0.35%
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°C BNPI: AM1.5, front 1000W/m², rear 135W/m², 25°C				φVoc=98%±5% φIsc=45%±5% φPmax=40%±5%		Power Bining Tolerance: 0~3%									
		Module Type		AIKO-A470-MCE54Db		AIKO-A475-MCE54Db		AIKO-A480-MCE54Db		AIKO-A485-MCE54Db							
Test Conditions		STC		BNPI		STC		BNPI		STC		BNPI					
Pmax [W]		470		495		475		500		480		505		485		510	
Voc [V]		40.70		40.70		40.80		40.80		40.90		40.90		41.00		41.00	
Vmp [V]		34.30		34.30		34.40		34.40		34.50		34.50		34.60		34.60	
Isc [A]		14.72		15.52		14.76		15.56		14.80		15.60		14.84		15.64	
Imp [A]		13.71		14.44		13.81		14.54		13.92		14.64		14.02		14.75	
Module Efficiency		23.5%				23.8%				24.0%				24.3%			

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

Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%
Pmax [W]	494	517	499	523	504	528	509	534
Voc [V]	40.70	40.70	40.80	40.80	40.90	40.90	41.00	41.00
Vmp [V]	34.30	34.30	34.40	34.40	34.50	34.50	34.60	34.60
Isc [A]	15.46	16.19	15.50	16.24	15.54	16.28	15.58	16.32
Imp [A]	14.40	15.08	14.50	15.19	14.62	15.31	14.72	15.42

Product Specification

Cell Type	N-Type BC
Glass	Dual glass, 2.0 + 2.0mm coated semi 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	PV-KST4-EVO 2A/6I/ PV-KBT4-EVO 2A/6I from Staubli ElectricalConnectors AG
Weight	24.2kg±3%
Dimension	1762*1134*30mm
Package Detail	37pcs per pallet / 222pcs per 20'GP / 962pcs per 40'HC

Temperature Ratings (STC)

Temperature Coefficient of Isc	+ 0.05%/ °C
Temperature Coefficient of Voc	- 0.22%/ °C
Temperature Coefficient of Pmax	- 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 Voc and Isc 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



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

*AIKO reserves right to update the specification without notice
V2.1_202502_DsDr_EN
*AU version only