









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

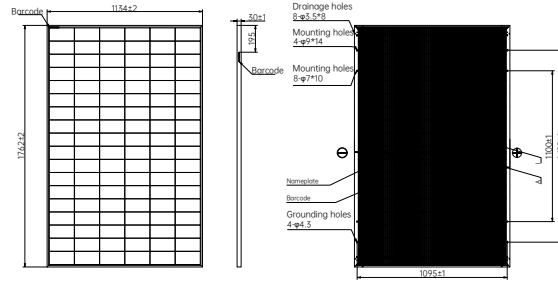
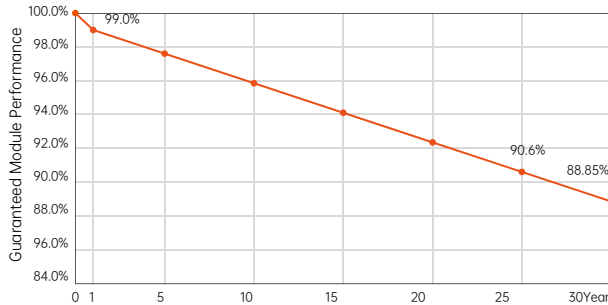
485W
Output

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/m ² , 25°C		BNPI: AM1.5, front 1000W/m ² , rear 135W/m ² , 25°C		Voc=98%±5%	Isc=45%±5%	Pmax=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	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	30mm diameter hail at 23.9m/s
Fire Rating	IEC Class A



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