



NEOSTAR

3S54 Mono-Glass Module

460W-475W

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
Extendable to 25years*



Performance
Warranty



Warranty partner

Munich RE 

475W

Output

23.8%

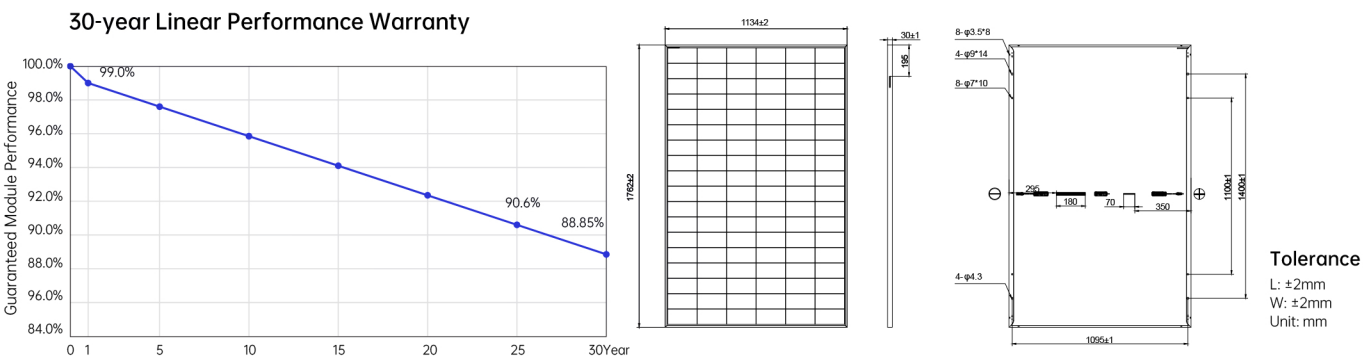
Efficiency

≤1%

First-year Degradation

≤0.35%

Annual Degradation from Year 2-30



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-A460-MCE54Mb		AIKO-A465-MCE54Mb		AIKO-A470-MCE54Mb		AIKO-A475-MCE54Mb		
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
P _{max} [W]	460	349	465	352	470	356	475	360	
V _{oc} [V]	40.50	38.42	40.60	38.52	40.70	38.61	40.80	38.71	
V _{mp} [V]	34.10	32.35	34.20	32.45	34.30	32.54	34.40	32.64	
I _{sc} [A]	14.66	11.85	14.69	11.87	14.72	11.89	14.76	11.93	
I _{mp} [A]	13.50	10.89	13.60	10.87	13.71	10.96	13.81	11.04	
Module Efficiency	23.0%		23.3%		23.5%		23.8%		

Product Specification	
Cell Type	N-Type ABC
Glass	3.2mm tempered glass
Backsheet	High weather resistant backsheet
Frame	Black anodized aluminum
Cable	4mm²(IEC) 12AWG(UL) ±1200mm
No. of Cells	108(6*18)
Junction Box	IP68, 3 bypass diodes
Connector	Original MC4
Weight	20.6kg±3%
Dimension	1762*1134*30mm
Package Detail	37pcs per pallet / 222pcs per 20'GP / 962pcs 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	ClassII
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	40 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
*Optional Munich Re coverage is available upon request
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