

# NEOSTAR

3P54 Mono-Glass Module

Krannich Solar AG Only

470W-500W

## 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  
Krannich Solar AG Only\*



Performance Warranty



Warranty partner

Munich RE 

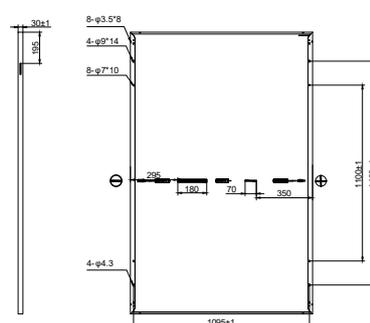
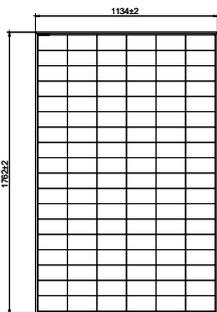
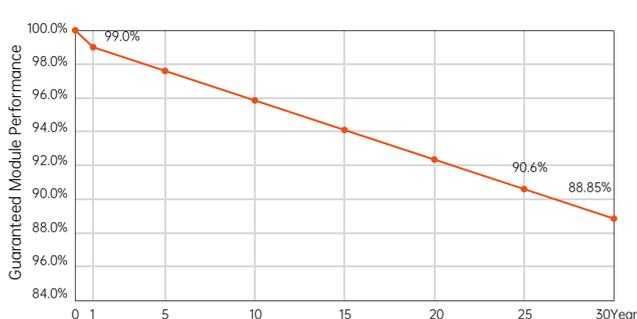
**500W**  
Output

**25.0%**  
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<sup>2</sup> 25°C NOCT: AM1.5 800W/m<sup>2</sup> 20°C 1m/s) Power Tolerance: 0~ +3%

Module Type	AIKO-A470-MCE54Mw		AIKO-A475-MCE54Mw		AIKO-A480-MCE54Mw		AIKO-A485-MCE54Mw		AIKO-A490-MCE54Mw		AIKO-A495-MCE54Mw		AIKO-A500-MCE54Mw	
Test Conditions	STC	NOCT												
P <sub>max</sub> [W]	470	356	475	360	480	364	485	367	490	371	495	375	500	379
V <sub>oc</sub> [V]	40.70	38.61	40.80	38.71	40.90	38.80	41.00	38.90	41.10	38.99	41.20	39.09	41.30	39.18
V <sub>mp</sub> [V]	34.30	32.54	34.40	32.64	34.50	32.73	34.60	32.83	34.70	32.92	34.80	33.02	34.90	33.11
I <sub>sc</sub> [A]	14.72	11.89	14.76	11.93	14.80	11.96	14.84	11.99	14.88	12.02	14.92	12.06	14.96	12.09
I <sub>mp</sub> [A]	13.71	10.96	13.81	11.04	13.92	11.13	14.02	11.21	14.13	11.29	14.23	11.37	14.33	11.46
<b>Module Efficiency</b>	<b>23.5%</b>		<b>23.8%</b>		<b>24.0%</b>		<b>24.3%</b>		<b>24.5%</b>		<b>24.8%</b>		<b>25.0%</b>	

### Product Specification

Cell Type	N-Type ABC
Glass	3.2mm tempered glass
Backsheet	High weather resistant backsheet
Frame	Black anodized aluminum
Cable	4mm <sup>2</sup> (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 <sub>sc</sub>	+ 0.05%/ °C
Temperature Coefficient of V <sub>oc</sub>	- 0.22%/ °C
Temperature Coefficient of P <sub>max</sub>	- 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	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  
V2.1\_202502\_DsDr\_EN  
\*25-Year Product Warranty only for Krannich Solar AG