

# 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



Performance  
Warranty



Warranty partner

Munich RE 

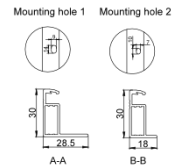
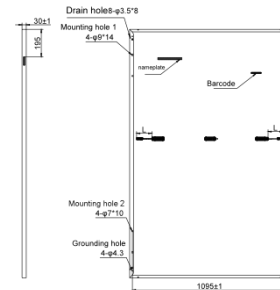
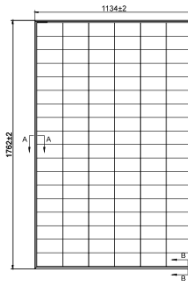
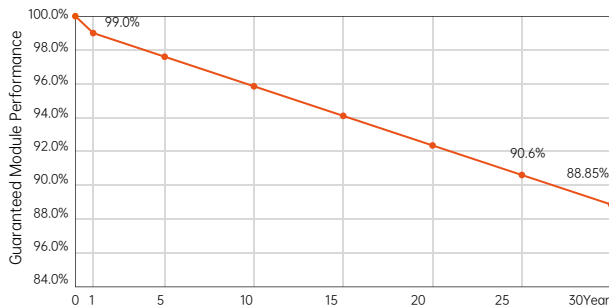
**475W**  
Output

**23.8%**  
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-A460-MCE54Mb |       | AIKO-A465-MCE54Mb |       | AIKO-A470-MCE54Mb |       | AIKO-A475-MCE54Mb |       |
|----------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| Test Conditions      | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  |
| P <sub>max</sub> [W] | 460               | 349   | 465               | 352   | 470               | 356   | 475               | 360   |
| V <sub>oc</sub> [V]  | 40.50             | 38.42 | 40.60             | 38.52 | 40.70             | 38.61 | 40.80             | 38.71 |
| V <sub>mp</sub> [V]  | 34.10             | 32.35 | 34.20             | 32.45 | 34.30             | 32.54 | 34.40             | 32.64 |
| I <sub>sc</sub> [A]  | 14.66             | 11.85 | 14.69             | 11.87 | 14.72             | 11.89 | 14.76             | 11.93 |
| I <sub>mp</sub> [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          | 4mm <sup>2</sup> (IEC) 12AWG(UL) ±1200mm               |
| No. of Cells   | 108(6*18)                                              |
| Junction Box   | IP68, 3 bypass diodes                                  |
| Connector      | Original MC4-EVO2A                                     |
| Weight         | 21.1kg±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           | Class II                      |
| 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                   |

