

# NEOSTAR

2S60 Mono-Glass Module  
500W-515W

## Technical Features:

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



red dot winner 2023



Product  
Warranty



Performance  
Warranty



Warranty partner

Munich RE



**515W**

Output

**23.2%**

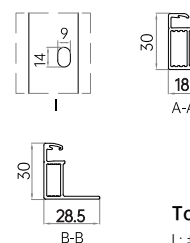
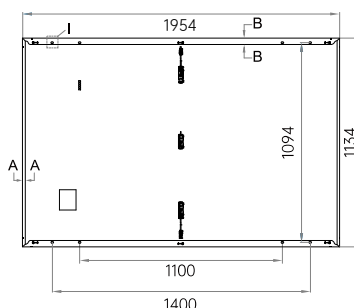
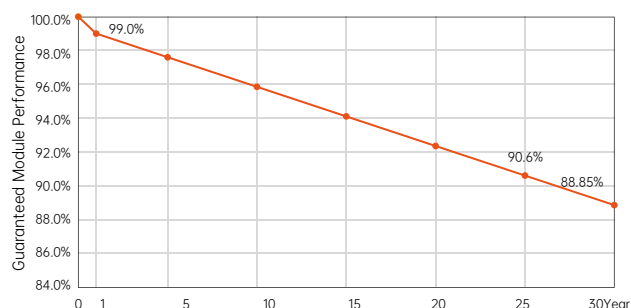
Efficiency

**≤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-A500-MAH60Mb |       | AIKO-A505-MAH60Mb |       | AIKO-A510-MAH60Mb |       | AIKO-A515-MAH60Mb |       |
|--------------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| Test Conditions          | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  |
| P <sub>max</sub> [W]     | 500               | 379   | 505               | 383   | 510               | 386   | 515               | 390   |
| V <sub>oc</sub> [V]      | 45.02             | 42.71 | 45.12             | 42.80 | 45.22             | 42.90 | 45.32             | 42.99 |
| V <sub>mp</sub> [V]      | 37.90             | 35.96 | 38.00             | 36.05 | 38.10             | 36.15 | 38.20             | 36.24 |
| I <sub>sc</sub> [A]      | 14.05             | 11.35 | 14.11             | 11.40 | 14.17             | 11.45 | 14.23             | 11.49 |
| I <sub>mp</sub> [A]      | 13.02             | 10.55 | 13.30             | 10.63 | 13.39             | 10.70 | 13.49             | 10.78 |
| <b>Module Efficiency</b> | <b>22.6%</b>      |       | <b>22.8%</b>      |       | <b>23.0%</b>      |       | <b>23.2%</b>      |       |

**Product Specification**

|                           |                                                        |
|---------------------------|--------------------------------------------------------|
| Cell Type                 | N-Type ABC                                             |
| Front Cover<br>Mono glass | 3.2 mm tempered glass                                  |
| Backsheet                 | High weather resistant backsheet                       |
| Frame                     | Black Anodized aluminum                                |
| Cable                     | 4mm <sup>2</sup> (IEC) 12AWG(UL) ±1200mm               |
| No. of Cells              | 120(6*20)                                              |
| Junction Box              | IP68, 3 bypass diodes                                  |
| Connector                 | Original MC4                                           |
| Weight                    | 23.1kg±3%                                              |
| Dimension                 | 1954*1134*30mm                                         |
| Package Detail            | 37pcs per pallet / 185pcs per 20'GP / 888pcs 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                        |
| V <sub>oc</sub> and I <sub>sc</sub> Tolerance | ±3%                             |
| Maximum System Voltage                        | DC1500V                         |
| Maximum Static Loading                        | Front 5400Pa Back 2400Pa        |
| Hail Test                                     | 35 mm diameter hail at 27.2 m/s |
| Fire Rating                                   | IEC Class C                     |

