

# NEOSTAR

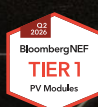
Draft

2P+48 Dual-Glass 465W-485W



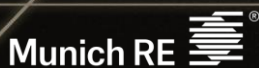
## Technical Features:

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



red dot winner 2023

Warranty partner



Product  
Warranty  
Extendable to 25years\*



Performance  
Warranty

IEC61215/IEC61730  
IEC61701/IEC62716

ISO9001:ISO Quality Management System  
ISO14001:ISO Environmental Management System  
ISO14064:Greenhouse Gas Verification Statement  
ISO45001:ISO Occupational Health and Safety Management System

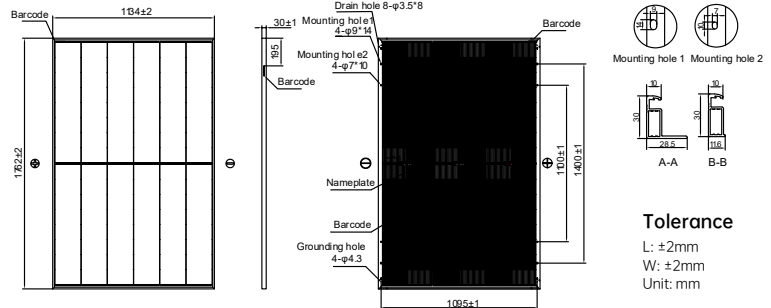
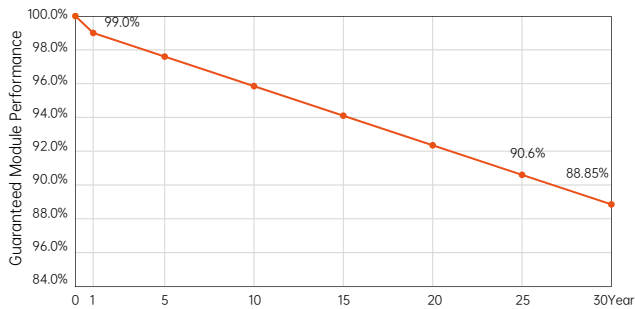
**485W**  
Output

**24.3%**  
Efficiency

**≤1%**  
First-year Degradation

**≤0.35%**  
Annual Degradation from Year 2-30

### 30-year Linear Performance Warranty



### 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-A465-GRH48Dw |       |       | AIKO-A470-GRH48Dw |       |       | AIKO-A475-GRH48Dw |       |       | AIKO-A480-GRH48Dw |       |       | AIKO-A485-GRH48Dw |       |       |
|----------------------|-------------------|-------|-------|-------------------|-------|-------|-------------------|-------|-------|-------------------|-------|-------|-------------------|-------|-------|
| Test Conditions      | STC               | NOCT  | BNPI  | STC               | NOCT  | BNPI  | STC               | NOCT  | BNPI  | STC               | NOCT  | BNPI  | STC               | NOCT  | BNPI  |
| P <sub>max</sub> [W] | 465               | 357   | 501   | 470               | 361   | 506   | 475               | 365   | 512   | 480               | 369   | 517   | 485               | 373   | 522   |
| V <sub>oc</sub> [V]  | 34.80             | 32.71 | 34.80 | 35.00             | 32.90 | 35.00 | 35.19             | 33.08 | 35.19 | 35.33             | 33.21 | 35.33 | 35.57             | 33.44 | 35.57 |
| V <sub>mp</sub> [V]  | 29.64             | 27.83 | 29.64 | 29.80             | 27.98 | 29.80 | 29.97             | 28.14 | 29.97 | 30.11             | 28.27 | 30.11 | 30.27             | 28.42 | 30.27 |
| I <sub>sc</sub> [A]  | 16.33             | 13.12 | 17.65 | 16.43             | 13.20 | 17.76 | 16.52             | 13.27 | 17.86 | 16.63             | 13.36 | 17.98 | 16.71             | 13.42 | 18.07 |
| I <sub>mp</sub> [A]  | 15.69             | 12.83 | 16.90 | 15.77             | 12.90 | 16.99 | 15.85             | 12.97 | 17.07 | 15.94             | 13.05 | 17.17 | 16.02             | 13.13 | 17.25 |
| Module Efficiency    | 23.3%             |       |       | 23.5%             |       |       | 23.8%             |       |       | 24.0%             |       |       | 24.3%             |       |       |

### Product Specification

|                 |                                                        |
|-----------------|--------------------------------------------------------|
| Bifacial Factor | 80±5%                                                  |
| Cell Type       | N-Type ABC                                             |
| Front Cover     | 2.0mm coated semi tempered glass                       |
| Rear Cover      | 2.0mm semi tempered glass                              |
| Frame           | Black anodized aluminum                                |
| Cable           | 4mm²(IEC) 12AWG(UL) ±1200mm                            |
| No. of Cells    | 96(6*16)                                               |
| Junction Box    | IP68, 3 bypass diodes                                  |
| Connector       | Original MC4-EVO2A                                     |
| Weight          | 24.1kg±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 |
| NOCT(Nominal Operating Cell Temperature)    | 45°C (±2°C) |

### Installation Guide

|                            |                               |
|----------------------------|-------------------------------|
| Operation Temperature      | -40°C - +70°C                 |
| Maximum Series Fuse Rating | 30A                           |
| 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 A                   |



www.aikosolar.com  
marketing@aikosolar.com

\*AIKO reserves right to update the specification without notice  
\*Optional Munich Re coverage is available upon request  
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