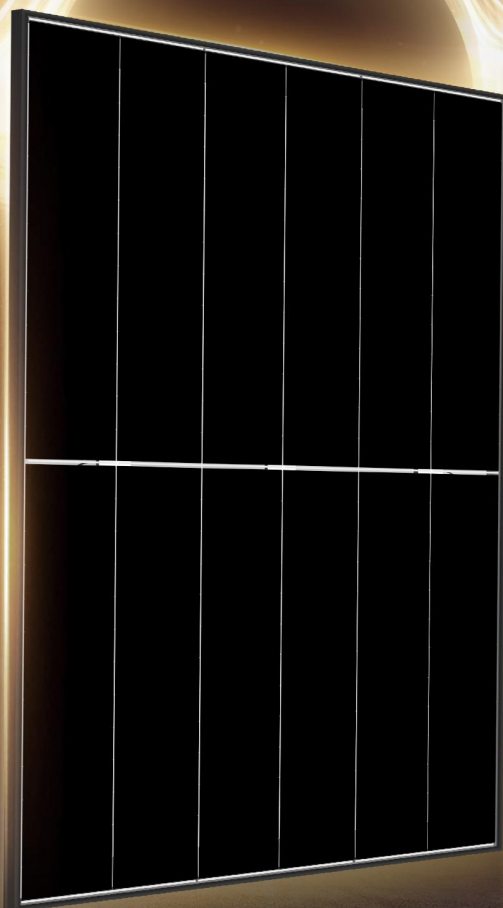


# NEOSTAR

Draft

2P+48w Dual-Glass Monofacial  
470W-500W



## 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



Ariel Green



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

# 500W

## Output

# 25.0%

## Efficiency

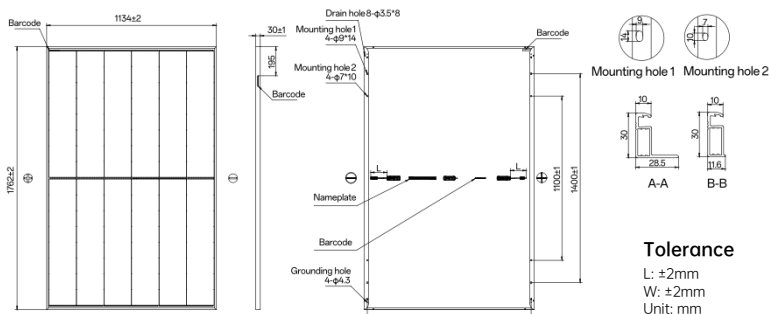
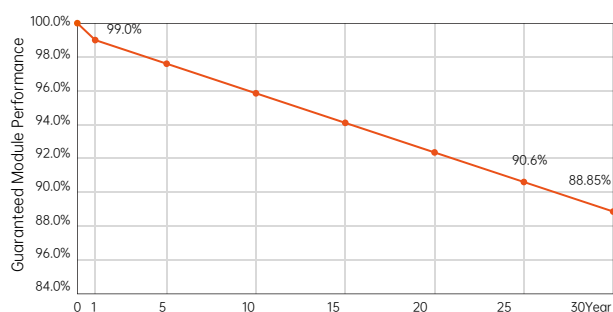
**≤ 1%**

### First-year Degradation

**≤0.35%**

Annual Degradation from Year 2-30

### 30-year Linear Performance Warranty



**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-GRH48Dw |       | AIKO-A475-GRH48Dw |       | AIKO-A480-GRH48Dw |       | AIKO-A485-GRH48Dw |       | AIKO-A490-GRH48Dw |       | AIKO-A495-GRH48Dw |       | AIKO-A500-GRH48Dw |       |
|----------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| Test Conditions      | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  |
| P <sub>max</sub> [W] | 470               | 361   | 475               | 365   | 480               | 369   | 485               | 373   | 490               | 377   | 495               | 381   | 500               | 385   |
| V <sub>oc</sub> [V]  | 35.00             | 32.90 | 35.19             | 33.08 | 35.33             | 33.21 | 35.57             | 33.44 | 35.72             | 33.58 | 35.86             | 33.71 | 36.04             | 33.90 |
| V <sub>mp</sub> [V]  | 30.74             | 28.86 | 30.90             | 29.02 | 31.05             | 29.15 | 31.19             | 29.27 | 31.35             | 29.44 | 31.51             | 29.58 | 31.65             | 29.70 |
| I <sub>sc</sub> [A]  | 16.43             | 13.20 | 16.52             | 13.27 | 16.63             | 13.36 | 16.71             | 13.42 | 16.79             | 13.49 | 16.90             | 13.58 | 16.98             | 13.65 |
| I <sub>mp</sub> [A]  | 15.29             | 12.51 | 15.37             | 12.58 | 15.46             | 12.66 | 15.55             | 12.74 | 15.63             | 12.81 | 15.71             | 12.88 | 15.80             | 12.96 |
| Module Efficiency    | 23.5%             |       | 23.8%             |       | 24.0%             |       | 24.3%             |       | 24.5%             |       | 24.8%             |       | 25.0%             |       |

## Product Specification

|                |                                                        |
|----------------|--------------------------------------------------------|
| 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         | 24.2kg±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 |
| 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                   |



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