

# NEOSTAR<sup>Draft</sup>

G4-54Mw  
Mono-Glass 485W-510W

## 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

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

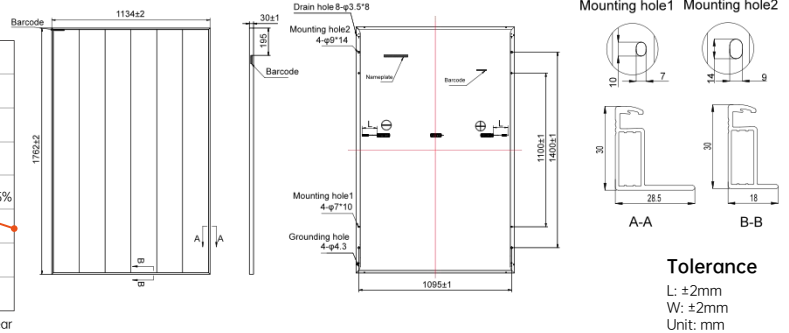
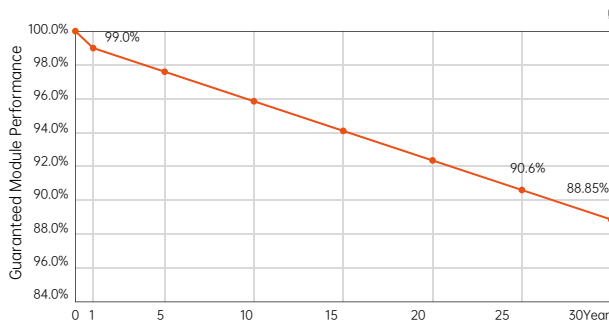
**510W**  
Output

**25.5%**  
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-A485-MCE54Mw |       | AIKO-A490-MCE54Mw |       | AIKO-A495-MCE54Mw |       | AIKO-A500-MCE54Mw |       | AIKO-A505-MCE54Mw |       | AIKO-A510-MCE54Mw |       |
|----------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| Test Conditions      | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  |
| P <sub>max</sub> [W] | 485               | 367   | 490               | 371   | 495               | 375   | 500               | 379   | 505               | 383   | 510               | 386   |
| V <sub>oc</sub> [V]  | 40.51             | 38.43 | 40.61             | 38.53 | 40.71             | 38.62 | 40.81             | 38.72 | 40.96             | 38.86 | 41.11             | 39.00 |
| V <sub>mp</sub> [V]  | 34.07             | 32.32 | 34.17             | 32.42 | 34.27             | 32.51 | 34.37             | 32.61 | 34.47             | 32.70 | 34.57             | 32.80 |
| I <sub>sc</sub> [A]  | 15.21             | 12.29 | 15.27             | 12.34 | 15.33             | 12.39 | 15.39             | 12.44 | 15.45             | 12.48 | 15.52             | 12.54 |
| I <sub>mp</sub> [A]  | 14.24             | 11.39 | 14.35             | 11.48 | 14.45             | 11.55 | 14.55             | 11.63 | 14.66             | 11.72 | 14.76             | 11.80 |
| Module Efficiency    | 24.3%             |       | 24.5%             |       | 24.8%             |       | 25.0%             |       | 25.3%             |       | 25.5%             |       |

### 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 - +70°C                 |
| Maximum Series Fuse Rating | 25A                           |
| Protection Class           | Class II                      |
| Maximum System Voltage     | DC1500V                       |
| Maximum Static Loading     | Front 5400Pa Back 2400Pa      |
| Hail Test                  | 40 mm diameter hail at 23 m/s |
| Fire Rating                | IEC Class C                   |

