

NEOSTAR

3S54 Mono-Glass Module

480W-495W

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 

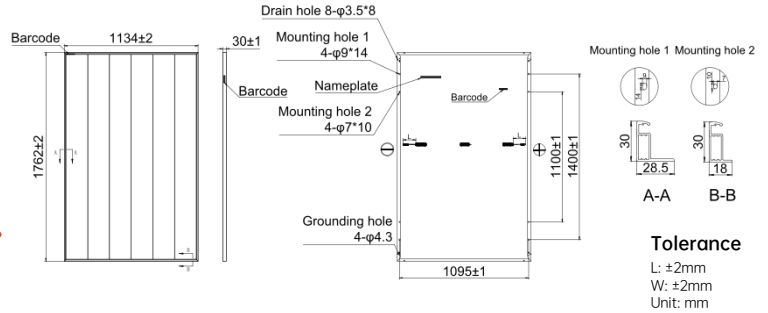
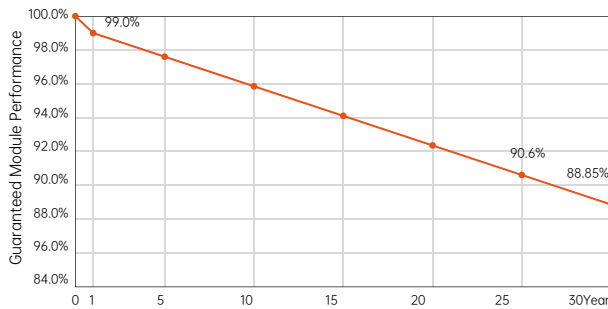
495W
Output

24.8%
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/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s) Power Tolerance: 0~ + 3%

| Module Type | AIKO-A480-MCE54Mb | | AIKO-A485-MCE54Mb | | AIKO-A490-MCE54Mb | | AIKO-A495-MCE54Mb | |
|--------------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| P _{max} [W] | 480 | 364 | 485 | 367 | 490 | 371 | 495 | 375 |
| V _{oc} [V] | 40.90 | 38.80 | 41.00 | 38.90 | 41.10 | 38.99 | 41.20 | 39.09 |
| V _{mp} [V] | 34.50 | 32.73 | 34.60 | 32.83 | 34.70 | 32.92 | 34.80 | 33.02 |
| I _{sc} [A] | 14.80 | 11.96 | 14.84 | 11.99 | 14.88 | 12.02 | 14.92 | 12.06 |
| I _{mp} [A] | 13.92 | 11.13 | 14.02 | 11.21 | 14.13 | 11.29 | 14.23 | 11.37 |
| Module Efficiency | 24.0% | | 24.3% | | 24.5% | | 24.8% | |

Product Specification

| | |
|----------------|--|
| Cell Type | N-Type ABC |
| Glass | 3.2mm tempered glass |
| Backsheet | High weather resistant backsheet |
| Frame | Black anodized aluminum |
| Cable | 4mm ² (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 _{sc} | + 0.05%/ °C |
| Temperature Coefficient of V _{oc} | - 0.22%/ °C |
| Temperature Coefficient of P _{max} | - 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 | 25 mm diameter hail at 23 m/s |
| Fire Rating | IEC Class C |



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