AIKO

# NEOSTAR

## 3S54 Mono-Glass Module

## 460W-475W

### Technical Features:

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

BloombergNEF TIER 1 PV Modules

ESG TRANSPARENCY AWARD 2023/24

inter solar award 2023 WINNER

reddot winner 2023

Ariel Green

CE

TÜVRheinland

25 year Product Warranty

30 year Performance Warranty

IEC61215/IEC61730
IEC61701/IEC62716

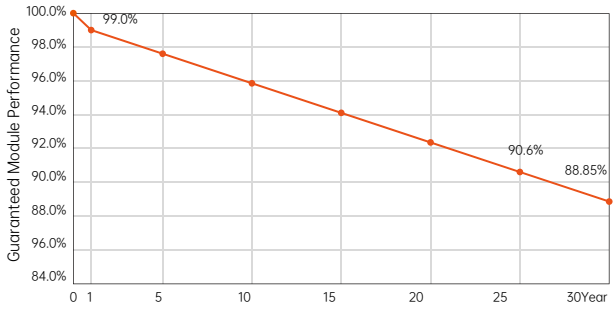
ISO9001:ISO Quality Management System
ISO14001:ISO Environmental Management System
ISO14064:Greenhouse Gas Verification Statement
ISO45001:ISO Occupational Health and Safety Management System

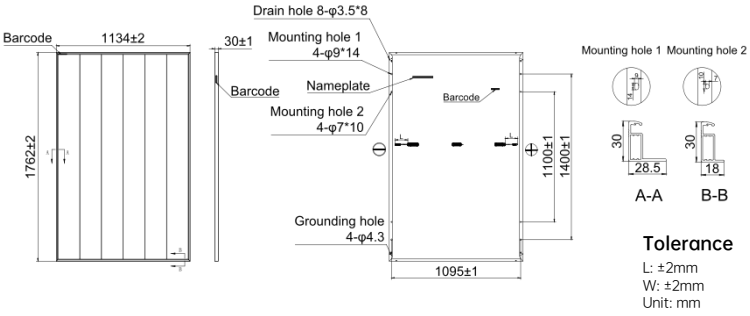
# Neostar 3S54

# AIKO-A-MCE54Mb

| 475W | 23.8% | ≤1% | ≤0.35% |
|---|---|---|---|
| Output | Efficiency | First-year Degradation | 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℃ NOCT: AM1.5 800W/m² 20℃ 1m/s) Power Tolerance:0~ + 3%

| Module Type | AIKO-A460-MCE54Mb | | AIKO-A465-MCE54Mb | | AIKO-A470-MCE54Mb | | AIKO-A475-MCE54Mb | |
|---|---|---|---|---|---|---|---|---|
| Test Conditions | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| $P_{max}$ [W] | 460 | 349 | 465 | 352 | 470 | 356 | 475 | 360 |
| $V_{oc}$ [V] | 40.50 | 38.42 | 40.60 | 38.52 | 40.70 | 38.61 | 40.80 | 38.71 |
| $V_{mp}$ [V] | 34.10 | 32.35 | 34.20 | 32.45 | 34.30 | 32.54 | 34.40 | 32.64 |
| $I_{sc}$ [A] | 14.66 | 11.85 | 14.69 | 11.87 | 14.72 | 11.89 | 14.76 | 11.93 |
| $I_{mp}$ [A] | 13.50 | 10.89 | 13.60 | 10.87 | 13.71 | 10.96 | 13.81 | 11.04 |
| **Module Efficiency** | **23.0%** | | **23.3%** | | **23.5%** | | **23.8%** | |

## Product Specification

| | |
|---|---|
| Cell Type | N-Type ABC |
| Glass | 3.2mm tempered glass |
| Backsheet | High weather resistant backsheet |
| Frame | Black anodized aluminum |
| Cable | 4mm²(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%/ ℃ |
| Temperature Coefficient of $V_{oc}$ | - 0.22%/ ℃ |
| Temperature Coefficient of $P_{max}$ | - 0.26%/ ℃ |

## Installation Guide

| | |
|---|---|
| Operation Temperature | -40℃ - +70℃ |
| 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 Ariel Green coverage is available upon request

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