AIKO

# NEOSTAR

Draft

## G4-54Db Dual-Glass
## 480W-495W



### Technical Features:

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

BloombergNEF TIER 1 PV Modules

intersolar award 2023 WINNER

ESG Investment Award 2024/25

reddot winner

Ariel Green

CE

TÜVRheinland

30 year Product Warranty

30 year Performance Warranty

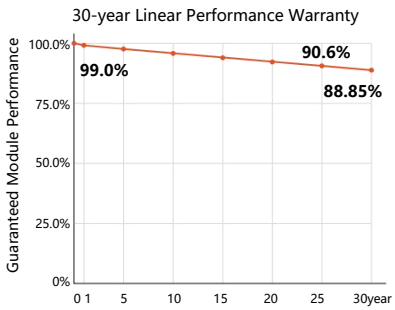
IEC61215/IEC61730
IEC61701/IEC62716

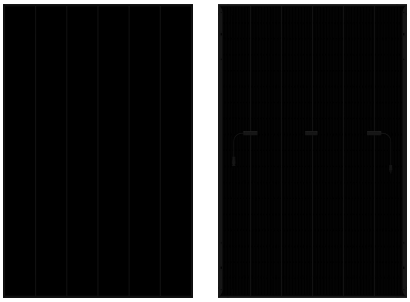
ISO9001:ISO Quality Management System
ISO14001:ISO Environmental Management System
ISO14064:Greenhouse Gas Verification Statement
ISO45001:ISO Occupational Health and Safety Management System

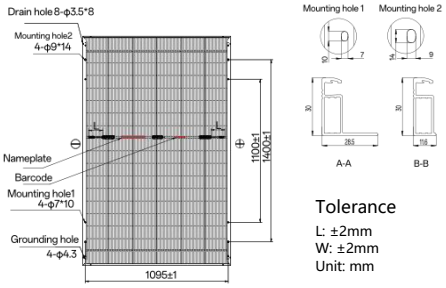
# Neostar 54

# AIKO-A-MCE54Db

| 495W | 24.8% | ≤1% | ≤0.35% |
|---|---|---|---|
| Output | Efficiency | First-year Degradation | Annual Degradation from Year 2-30 |






**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-A480-MCE54Db | | | AIKO-A485-MCE54Db | | | AIKO-A490-MCE54Db | | | AIKO-A495-MCE54Db | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Test Conditions | STC | NOCT | BNPI | STC | NOCT | BNPI | STC | NOCT | BNPI | STC | NOCT | BNPI |
| $P_{max}$ [W] | 480 | 364 | 505 | 485 | 367 | 510 | 490 | 371 | 515 | 495 | 375 | 520 |
| $V_{oc}$ [V] | 40.90 | 38.80 | 40.90 | 41.00 | 38.90 | 41.00 | 41.10 | 38.99 | 41.10 | 41.20 | 39.09 | 41.20 |
| $V_{mp}$ [V] | 34.50 | 32.73 | 34.50 | 34.60 | 32.83 | 34.60 | 34.70 | 32.92 | 34.70 | 34.80 | 33.02 | 34.80 |
| $I_{sc}$ [A] | 14.80 | 11.96 | 15.60 | 14.84 | 11.99 | 15.64 | 14.88 | 12.02 | 15.68 | 14.92 | 12.06 | 15.72 |
| $I_{mp}$ [A] | 13.92 | 11.13 | 14.64 | 14.02 | 11.21 | 14.75 | 14.13 | 11.29 | 14.85 | 14.23 | 11.37 | 14.95 |
| Module Efficiency | | **24.0%** | | | **24.3%** | | | **24.5%** | | | **24.8%** | |

## 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 | 108(6*18) |
| 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℃ (±2℃) |

## Installation Guide

| | |
|---|---|
| Operation Temperature | -40℃ - +70℃ |
| Maximum Series Fuse Rating | 30A |
| Protection Class | ClassⅡ |
| 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 |

**Installer Community**

Get rewarded
for installing AIKO

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