







NEOSTAR

2P+ Dual-Glass Module

455W-475W

Technical Features:

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



red dot winner 2023



Product Warranty
Extendable to 25years*



Performance Warranty



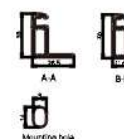
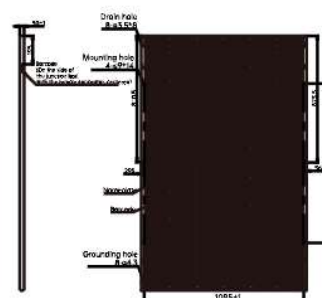
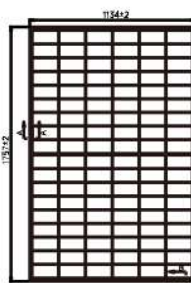
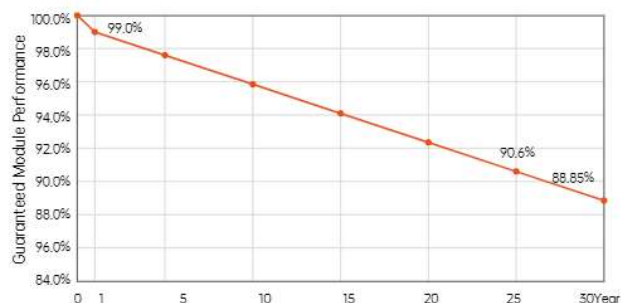
475W
Output

23.8%
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/m ² 25°C NOCT: AM1.5 800W/m ² 20°C 1m/s) | | | | | | | | | | Power Tolerance:0 - +3% |
|---|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------------------------|
| Module Type | AIKO-A455-MAH54Dw | | AIKO-A455-MAH54Dw | | AIKO-A455-MAH54Dw | | AIKO-A455-MAH54Dw | | AIKO-A455-MAH54Dw | |
| Test Conditions | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| P _{max} [W] | 455 | 343 | 460 | 346 | 465 | 350 | 470 | 354 | 475 | 358 |
| V _{oc} [V] | 41.00 | 38.72 | 41.06 | 38.77 | 41.12 | 38.83 | 41.18 | 38.89 | 41.24 | 38.94 |
| V _{mp} [V] | 34.56 | 32.64 | 34.62 | 32.69 | 34.68 | 32.75 | 34.74 | 32.81 | 34.80 | 32.86 |
| I _{sc} [A] | 14.22 | 11.50 | 14.25 | 11.52 | 14.29 | 11.55 | 14.32 | 11.58 | 14.35 | 11.60 |
| I _{mp} [A] | 13.17 | 10.32 | 13.29 | 10.41 | 13.41 | 10.51 | 13.54 | 10.61 | 13.66 | 10.71 |
| Module Efficiency | 22.8% | | 23.1% | | 23.3% | | 23.6% | | 23.8% | |

Product Specification

| | |
|----------------|--|
| Cell Type | N-Type ABC |
| Glass | Dual glass, 2.0 + 2.0mm coated semi tempered glass |
| Frame | Black Anodized aluminum |
| Cable | 4mm ² (IEC) 12AWG(UL) ±1200mm |
| No. of Cells | 108(6*18) |
| Junction Box | IP68, 3 bypass diodes |
| Connector | MC4-Evo2 |
| Weight | 24.2kg |
| Dimension | 1757*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 - +85°C |
| Maximum Series Fuse Rating | 25A |
| Protection Class | ClassII |
| V _{oc} and I _{sc} Tolerance | ±3% |
| Maximum System Voltage | DC1500V |
| Maximum Static Loading | Front 5400Pa Back 2400Pa |
| Hail Test | 35 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
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