

NEOSTAR

2S+ Dual-Glass Module
455W-470W

Technical Features:

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



red dot winner 2023



Product Warranty



Performance Warranty



Warranty partner

Munich RE 

Made in China A

470W

Output

23.6%

Efficiency

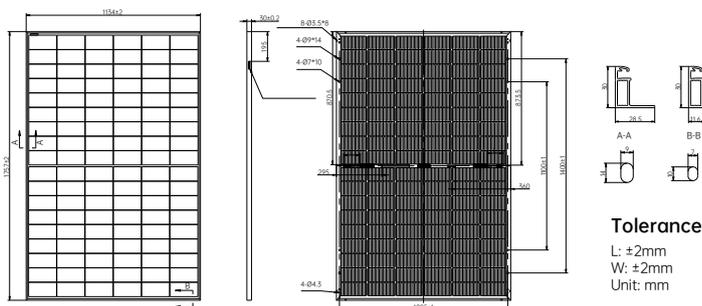
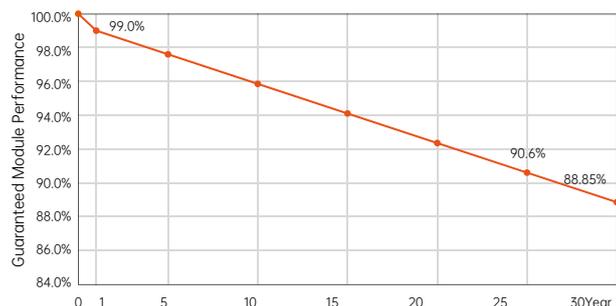
1%

First-year Degradation

0.35%

Annual Degradation from Year 2-30

30-year Linear Performance Warranty



| Electrical Characteristics | | | | | | | | Voc=97%±5% Isc=38%±5% Pmax=39%±5% | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------------------------|-------------------|
| STC:AM1.51000W/m²25°C BNPI: AM1.5, front 1000W/m², rear 135W/m², 25°C | | | | | | | | Power Binning Tolerance: 0-+3% | |
| Module Type | AIKO-A455-MAH54Db | AIKO-A460-MAH54Db | AIKO-A465-MAH54Db | AIKO-A470-MAH54Db | AIKO-A475-MAH54Db | AIKO-A480-MAH54Db | AIKO-A485-MAH54Db | AIKO-A490-MAH54Db | AIKO-A495-MAH54Db |
| Test Conditions | STC | BNPI | STC | BNPI | STC | BNPI | STC | BNPI | STC |
| Pmax [W] | 455 | 475 | 460 | 480 | 465 | 485 | 470 | 490 | 495 |
| Voc [V] | 41.00 | 41.00 | 41.06 | 41.06 | 41.12 | 41.12 | 41.18 | 41.18 | 41.18 |
| Vmp [V] | 34.56 | 34.56 | 34.62 | 34.62 | 34.68 | 34.68 | 34.74 | 34.74 | 34.74 |
| Isc [A] | 14.22 | 14.83 | 14.25 | 14.93 | 14.29 | 15.03 | 14.32 | 15.13 | 15.13 |
| Imp [A] | 13.17 | 13.75 | 13.29 | 13.87 | 13.41 | 13.99 | 13.54 | 14.11 | 14.11 |
| Module Efficiency | 22.8% | | 23.1% | | 23.3% | | 23.6% | | |

| Electrical characteristics with different power bin (reference to 5% & 10% backside power gain) | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Backside Power Gain | 5% | 10% | 5% | 10% | 5% | 10% | 5% | 10% |
| Pmax [W] | 478 | 501 | 483 | 506 | 488 | 512 | 494 | 517 |
| Voc [V] | 41.00 | 41.00 | 41.06 | 41.06 | 41.12 | 41.12 | 41.18 | 41.18 |
| Vmp [V] | 34.56 | 34.56 | 34.62 | 34.62 | 34.68 | 34.68 | 34.74 | 34.74 |
| Isc [A] | 14.93 | 15.64 | 14.96 | 15.68 | 15.00 | 15.72 | 15.04 | 15.75 |
| Imp [A] | 13.83 | 14.49 | 13.95 | 14.62 | 14.08 | 14.75 | 14.22 | 14.89 |

| Product Specification | |
|-----------------------|--|
| Cell Type | N-Type BC |
| Glass | Dual glass, 2.0 + 2.0mm coated 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 | PV-KST4-EVO 2A/6I/ PV-KBT4-EVO 2A/6I from Staubli ElectricalConnectors AG |
| Weight | 24.2kg±3% |
| Dimension | 1757*1134*30mm |
| Package Detail | 37pcs per pallet / 222pcs per 20'GP / 962pcs per 40'HC |

| Temperature Ratings (STC) | |
|---------------------------------|-------------|
| Temperature Coefficient of Isc | + 0.05%/ °C |
| Temperature Coefficient of Voc | - 0.22%/ °C |
| Temperature Coefficient of Pmax | - 0.26%/ °C |

| Installation Guide | |
|--------------------------------|-------------------------------|
| T ₉₈ max | 70°C |
| Module Operation Temperature | -40°C - +85°C |
| Maximum Series Fuse Rating | 25A |
| Protection Class | Class II |
| Pmax and Voc and Isc Tolerance | ±3% |
| 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 |



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*AIKO reserves right to update the specification without notice
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