AIKO

# STELLAR

## 1N+66 Dual-Glass Module

## 645W-680W



### Technical Features:

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

TIER 1 BloombergNEF

ESG TRANSPARENCY AWARD 2023/24

inter solar award 2023 WINNER

reddot winner 2023

15 year Product Warranty

30 year Performance Warranty

CE

TÜVRheinland

Warranty partner

Munich RE

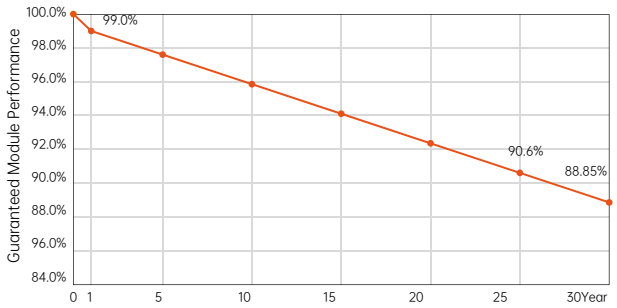
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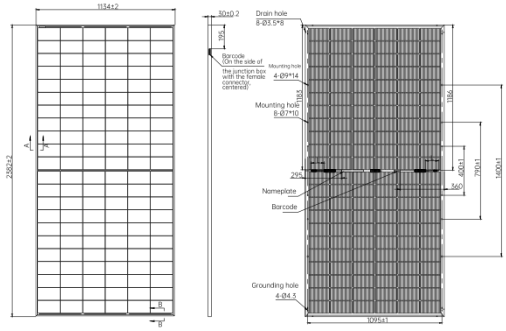
# Stellar 1N+66

# AIKO-A-GRH66Dw

| 680W | 25.2% | ≤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-A645-GRH66Dw | | AIKO-A650-GRH66Dw | | AIKO-A655-GRH66Dw | | AIKO-A660-GRH66Dw | | AIKO-A665-GRH66Dw | | AIKO-A670-GRH66Dw | | AIKO-A675-GRH66Dw | | AIKO-A680-GRH66Dw | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Test Conditions | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| $P_{max}$[W] | 645 | 491 | 650 | 495 | 655 | 499 | 660 | 503 | 665 | 507 | 670 | 511 | 675 | 514 | 680 | 518 |
| $V_{oc}$[V] | 49.60 | 47.42 | 49.70 | 47.52 | 49.80 | 47.62 | 49.90 | 47.72 | 50.00 | 47.82 | 50.10 | 47.91 | 50.20 | 48.01 | 50.30 | 48.10 |
| $V_{mp}$[V] | 40.59 | 38.90 | 40.68 | 38.98 | 40.80 | 39.08 | 40.90 | 39.18 | 41.00 | 39.27 | 41.11 | 39.37 | 41.21 | 39.46 | 41.32 | 39.56 |
| $I_{sc}$[A] | 16.55 | 13.35 | 16.64 | 13.42 | 16.72 | 13.48 | 16.80 | 13.54 | 16.88 | 13.60 | 16.96 | 13.66 | 17.04 | 13.71 | 17.12 | 13.77 |
| $I_{mp}$[A] | 15.89 | 12.62 | 15.98 | 12.69 | 16.06 | 12.76 | 16.14 | 12.83 | 16.22 | 12.90 | 16.30 | 12.97 | 16.38 | 13.03 | 16.46 | 13.09 |
| **Module Efficiency** | **23.9%** | | **24.1%** | | **24.2%** | | **24.4%** | | **24.6%** | | **24.8%** | | **25.0%** | | **25.2%** | |

## Product Specification

| | |
|---|---|
| Bifacial Factor | 75±5% |
| Cell Type | N-Type ABC |
| Glass | Dual glass, 2.0 + 2.0mm coated semi-tempered glass |
| Frame | Anodized aluminum |
| Cable | 4mm²(IEC) 12AWG(UL)<br>+400mm, -200mm/±1400mm or Customized Length |
| No. of Cells | 132(6*22) |
| Junction Box | IP68, 3 bypass diodes |
| Connector | MC4 Compatible/Original MC4-EVO2A |
| Weight | 32.5kg±3% |
| Dimension | 2382*1134*30mm |
| Package Detail | 36pcs per pallet / 144pcs per 20'GP / 720pcs 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℃ - +85℃ |
| Maximum Series Fuse Rating | 30A |
| Protection Class | Class II |
| $V_{oc}$ and $I_{sc}$ 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 |

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

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