

# COMET

2U Mono-Glass Module

640W-670W

## 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



Warranty partner

Munich RE



670W

Output

24.8%

Efficiency

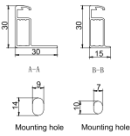
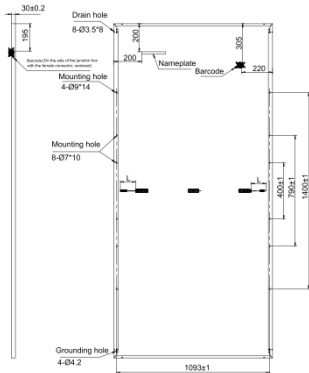
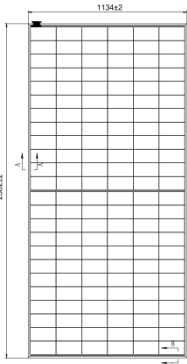
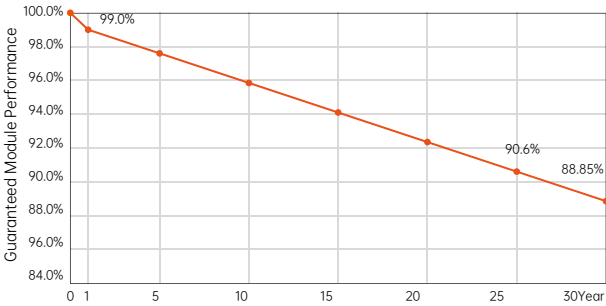
≤1%

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/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s)

Power Tolerance: 0~ + 3%

| Module Type          | AIKO-G640-MCH72Mw |       | AIKO-G645-MCH72Mw |       | AIKO-G650-MCH72Mw |       | AIKO-G655-MCH72Mw |       | AIKO-G660-MCH72Mw |       | AIKO-G665-MCH72Mw |       | AIKO-G670-MCH72Mw |       |
|----------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| Test Conditions      | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  |
| P <sub>max</sub> [W] | 640               | 482   | 645               | 486   | 650               | 490   | 655               | 493   | 660               | 497   | 665               | 501   | 670               | 505   |
| V <sub>oc</sub> [V]  | 54.20             | 51.18 | 54.30             | 51.28 | 54.40             | 51.37 | 54.50             | 51.47 | 54.60             | 51.56 | 54.70             | 51.66 | 54.80             | 51.75 |
| V <sub>mp</sub> [V]  | 44.90             | 42.40 | 45.00             | 42.50 | 45.10             | 42.59 | 45.20             | 42.69 | 45.30             | 42.78 | 45.40             | 42.87 | 45.50             | 42.97 |
| I <sub>sc</sub> [A]  | 15.00             | 12.13 | 15.06             | 12.18 | 15.12             | 12.23 | 15.18             | 12.28 | 15.24             | 12.32 | 15.30             | 12.37 | 15.36             | 12.42 |
| I <sub>mp</sub> [A]  | 14.26             | 11.38 | 14.34             | 11.44 | 14.42             | 11.51 | 14.50             | 11.57 | 14.57             | 11.63 | 14.65             | 11.69 | 14.73             | 11.76 |
| Module Efficiency    | 23.7%             |       | 23.9%             |       | 24.1%             |       | 24.2%             |       | 24.4%             |       | 24.6%             |       | 24.8%             |       |

Product Specification

|                |                                                                    |
|----------------|--------------------------------------------------------------------|
| Cell Type      | N-Type ABC                                                         |
| Glass          | 3.2mm tempered glass                                               |
| Frame          | Anodized aluminum                                                  |
| Cable          | 4mm²(IEC) 12AWG(UL)<br>+400mm, -200mm/±1400mm or Customized Length |
| No. of Cells   | 144(6*24)                                                          |
| Junction Box   | IP68, 3 bypass diodes                                              |
| Connector      | MC4 Compatible/Original MC4-EVO2A                                  |
| Weight         | 27.1kg±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 <sub>sc</sub>  | + 0.05%/ °C |
| Temperature Coefficient of V <sub>oc</sub>  | - 0.22%/ °C |
| Temperature Coefficient of P <sub>max</sub> | - 0.26%/ °C |

Installation Guide

|                                               |                               |
|-----------------------------------------------|-------------------------------|
| Operation Temperature                         | -40°C - +85°C                 |
| Maximum Series Fuse Rating                    | 25A                           |
| Protection Class                              | Class II                      |
| V <sub>oc</sub> and I <sub>sc</sub> 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 C                   |



www.aikosolar.com  
marketing@aikosolar.com

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