

# COMET

3N72e Mono-glass Module  
625W-650W

## Technical Features:

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



red dot winner 2023



Product Warranty  
(Extendable to 25years\*)



Performance  
Warranty



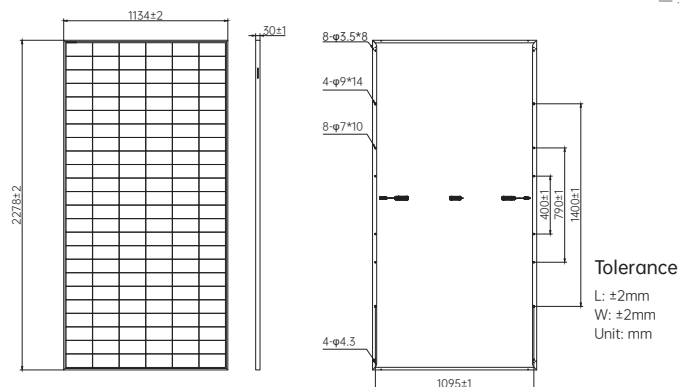
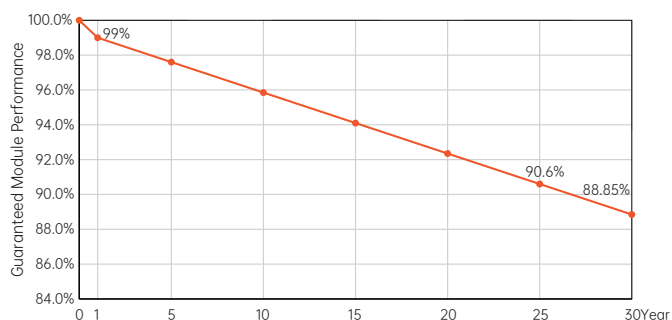
**650W**  
Output

**25.2%**  
Efficiency

 $\leq 1\%$   
First-year Degradation

 $\leq 0.35\%$   
Annual Degradation from Year 2-30

### 30-year Linear Performance Warranty



### Electrical Characteristics (STC: AM1.5 1000W/m<sup>2</sup> 25°C NOCT: AM1.5 800W/m<sup>2</sup> 20°C 1m/s)

Power Tolerance: 0~ + 3%

| Module Type          | AIKO-A625-MAE72Mw |       | AIKO-A630-MAE72Mw |       | AIKO-A635-MAE72Mw |       | AIKO-A640-MAE72Mw |       | AIKO-A645-MAE72Mw |       | AIKO-A650-MAE72Mw |       |
|----------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
| Test Conditions      | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  | STC               | NOCT  |
| P <sub>max</sub> [W] | 625               | 471   | 630               | 474   | 635               | 478   | 640               | 482   | 645               | 486   | 650               | 490   |
| V <sub>oc</sub> [V]  | 54.49             | 51.46 | 54.59             | 51.55 | 54.69             | 51.65 | 54.79             | 51.74 | 54.89             | 51.84 | 54.99             | 51.93 |
| V <sub>mp</sub> [V]  | 45.18             | 42.67 | 45.28             | 42.76 | 45.38             | 42.86 | 45.48             | 42.95 | 45.58             | 43.04 | 45.68             | 43.14 |
| I <sub>sc</sub> [A]  | 14.60             | 11.81 | 14.68             | 11.87 | 14.76             | 11.94 | 14.84             | 12.00 | 14.92             | 12.06 | 15.00             | 12.13 |
| I <sub>mp</sub> [A]  | 13.84             | 11.04 | 13.92             | 11.11 | 14                | 11.17 | 14.08             | 11.23 | 14.16             | 11.3  | 14.23             | 11.36 |
| Module Efficiency    | 24.2%             |       | 24.4%             |       | 24.6%             |       | 24.8%             |       | 25.0%             |       | 25.2%             |       |

### Product Specification

|                |                                                                              |
|----------------|------------------------------------------------------------------------------|
| Cell type      | N-Type ABC                                                                   |
| Glass          | 3.2 mm tempered glass                                                        |
| Backsheet      | High weather resistant backsheet                                             |
| Frame          | Anodized aluminum                                                            |
| Cable          | 4mm <sup>2</sup> (IEC) 12AWG(UL) +350mm, -280mm/±1400mm or Customized Length |
| No. of Cells   | 144(6*24)                                                                    |
| Junction Box   | IP68, 3 bypass diodes                                                        |
| Connector      | MC4 compatible/MC4-Evo2                                                      |
| Weight         | 27kg±3%                                                                      |
| Dimension      | 2278*1134*30mm                                                               |
| Package Detail | 37pcs per pallet / 185pcs per 20'GP / 740pcs 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                      |
| Maximum System Voltage     | DC1500V                       |
| Maximum Static Loading     | +5400Pa/-2400Pa               |
| Hail Test                  | 25 mm diameter hail at 23 m/s |
| Fire Rating                | IEC Class C                   |

