

Jinri **5N**

# 575-595W

SE5-72HBD

N-type TOPCon  
Bifacial Dual Glass Solar Module

**23.00%**

Max. Module Efficiency

## 10-30% Additional Power Generation

30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module.

## ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally which can increase power generation.

## Higher Reliability

Adopted SunEvo latest S-TOPCo 2.0 technology, No polysilicon wrap around, Full electrical isolation, Zero leakage current; Much Safer for roof.

## Better Weak Illumination Response

Higher power output even under low-light environments like on cloudy or foggy days.

## Better Temperature Coefficient

Higher power generation under working conditions, thanks to passivating contact cell technology.

## Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt).

IEC62716 (Ammonia), IEC60068-2-68(Sand).

ISO 9001:2015/quality management system.

ISO 14001:2015/environmental management system.

ISO 45001:2018/occupation health safety management system.

ISO 50001:2011/energy management system.

IEC TS 62941-2016/PV industry quality management system.

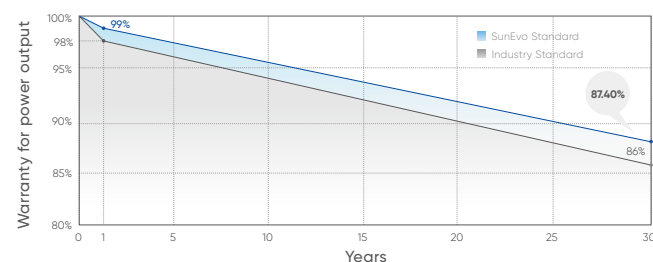
## Quality Guarantee

15 year

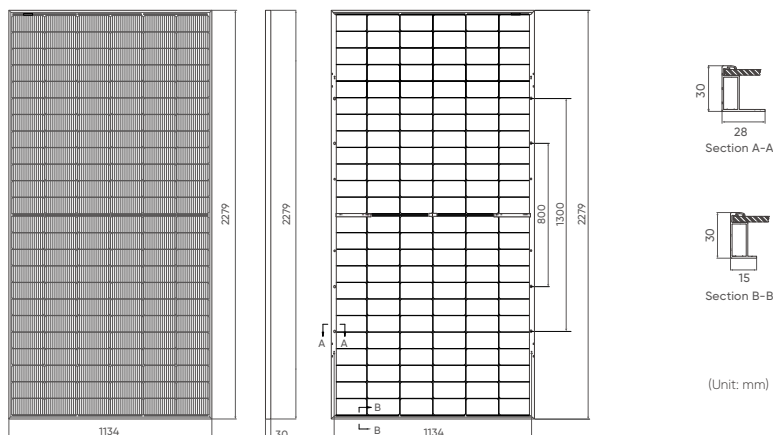
Materials Warranty

30 year

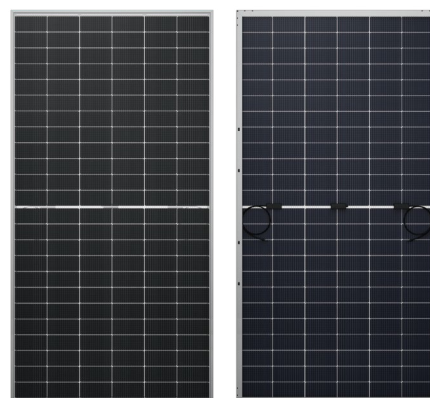
Power Warranty



## Drawings



## Product Image



## Mechanical Characteristics

|                  |                                                                            |
|------------------|----------------------------------------------------------------------------|
| Solar Cells      | TNC (N Type Monocrystalline Cell)                                          |
| No. of Cells     | 144 (6 × 24)                                                               |
| Dimensions       | 2278±2 × 1134±2 × 30mm                                                     |
| Weight           | 31.5kg                                                                     |
| Front/Rear Glass | 2.0mm high transmittance, AR semi-tempered glass/2.0mm semi-tempered glass |
| Frame            | Anodized aluminum alloy frame                                              |
| Junction Box     | IP68, 3 diodes                                                             |
| Output Cables    | 4mm <sup>2</sup>                                                           |
| Cable Length     | +400mm, -200mm, length can be customized                                   |
| Wind/Snow Load   | 2400Pa/5400Pa                                                              |
| Packaging        | 36pcs per pallet, 720pcs per 40'HC                                         |

## Operating Characteristics

|                              |                |
|------------------------------|----------------|
| Operating Module Temperature | -40°C to +85°C |
| Maximum System Voltage       | 1500V DC (IEC) |
| Maximum Series Fuse Rating   | 30A            |
| Power Tolerance              | 0~+5W          |

## Temperature Characteristics

|                                             |            |
|---------------------------------------------|------------|
| Nominal Operating Temperature (NMOT)        | 45±2°C     |
| Temperature Coefficient of P <sub>max</sub> | -0.28%/°C  |
| Temperature Coefficient of V <sub>oc</sub>  | -0.24%/°C  |
| Temperature Coefficient of I <sub>sc</sub>  | +0.046%/°C |

## Electrical Parameters (STC\*)

|                                                |       |       |       |       |       |
|------------------------------------------------|-------|-------|-------|-------|-------|
| Module Type: SE5-72HBD                         | 575   | 580   | 585   | 590   | 595   |
| Voltage at Maximum Power (V <sub>mpp</sub> /V) | 43.76 | 43.93 | 44.10 | 44.27 | 44.41 |
| Current at Maximum Power (I <sub>mp</sub> /A)  | 13.14 | 13.21 | 13.27 | 13.33 | 13.40 |
| Open Circuit Voltage (V <sub>oc</sub> /V)      | 52.10 | 52.30 | 52.50 | 52.70 | 53.20 |
| Short Circuit Current (I <sub>sc</sub> /A)     | 13.80 | 13.85 | 13.90 | 13.95 | 14.15 |
| Module Efficiency (%)                          | 22.30 | 22.50 | 22.60 | 22.80 | 23.00 |

## Bifacial Output (Rearside Power Gain)

|     |                                     |       |       |       |       |       |
|-----|-------------------------------------|-------|-------|-------|-------|-------|
| 5%  | Maximum Power (P <sub>max</sub> /W) | 603.8 | 609.0 | 614.3 | 619.5 | 624.8 |
|     | Module Efficiency STC (%)           | 23.40 | 23.60 | 23.80 | 24.00 | 24.20 |
| 15% | Maximum Power (P <sub>max</sub> /W) | 661.3 | 667.0 | 672.8 | 678.5 | 684.3 |
|     | Module Efficiency STC (%)           | 25.60 | 25.80 | 26.00 | 26.30 | 26.50 |
| 25% | Maximum Power (P <sub>max</sub> /W) | 718.8 | 725.0 | 731.3 | 737.5 | 743.8 |
|     | Module Efficiency STC (%)           | 27.80 | 28.10 | 28.30 | 28.50 | 28.80 |

1. Standard Test Conditions [STC]: irradiance 1000W/m<sup>2</sup>; AM 1.5; ambient temperature 25°C according to EN 60904-3;  
 2. Tolerance of P<sub>m</sub>: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of V<sub>oc</sub> [V], I<sub>sc</sub> [A], V<sub>m</sub> [V] and I<sub>m</sub> [A]: ±3%.

## I-V Curve

