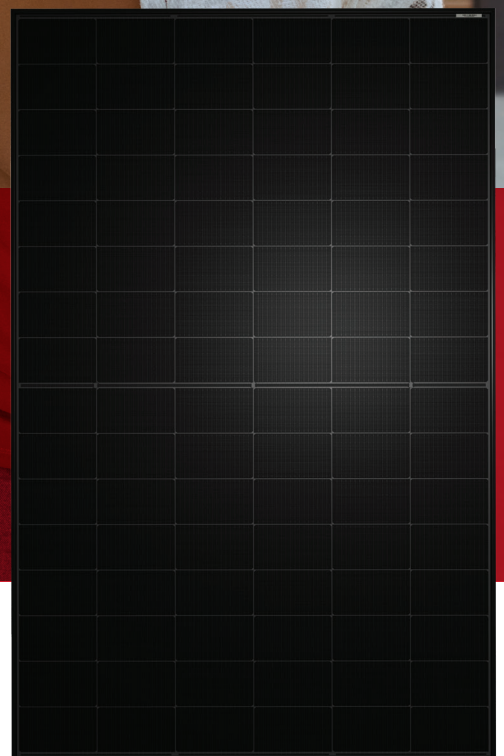


# Rinnai

## JK Series

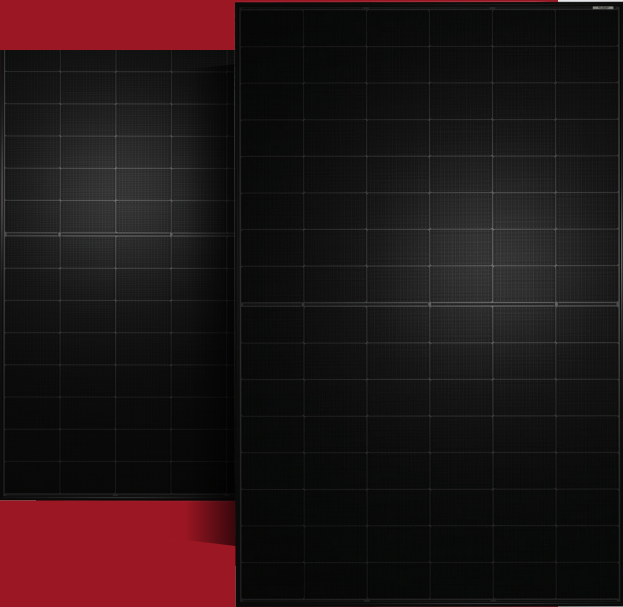
450-475W Full Black Solar Panel



# Features and Benefits

## Designed for Australian Conditions

The Rinnai JK series is designed to deliver dependable solar performance for modern Australian homes. Featuring advanced N-type half-cell technology and a durable dual-glass construction, it provides strong power output, consistent efficiency and long-term durability. The compact, lightweight format makes installation straightforward, while the refined black frame design ensures an attractive fit for a wide range of residential rooftops.



### Built for Australian Conditions

Cyclone-tested for high-wind regions and engineered with advanced hail resistance to withstand 45 mm hailstones at 110 km/h. Finished with a Level 8 Salt Mist rating for long-term durability in coastal environments.



### N-Type Technology

Next-generation cell technology delivers higher efficiency, strong low-light performance and reliable output in Australia's sunny climate.



### Dual-Glass Strength

A robust 2.0 mm dual-glass design increases durability and moisture resistance, supporting consistent long-term performance in humid and coastal areas.



### Positive Power Output

Every panel is guaranteed to meet or exceed its rated capacity, providing dependable real-world energy production.



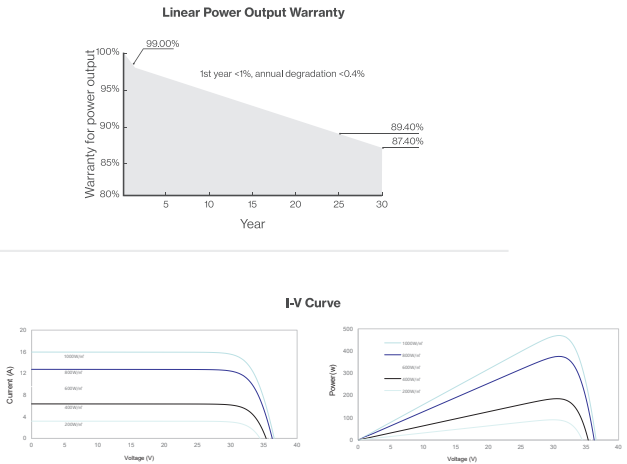
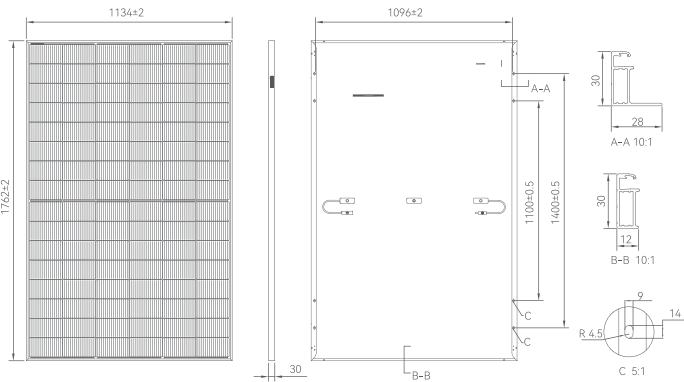
### Long-Term Assurance

Backed by a 25-year product warranty and a 30-year performance warranty for lasting confidence and efficiency.

# Technical Information

| RINNAI - Module type                       |                            |                         | RINNAI-JK-BLK-450                    | RINNAI-JK-BLK-455 | RINNAI-JK-BLK-460 | RINNAI-JK-BLK-465 | RINNAI-JK-BLK-470 | RINNAI-JK-BLK-475 |
|--------------------------------------------|----------------------------|-------------------------|--------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Electrical Characters (STC) <sup>(A)</sup> | Maximum Power              | P <sub>max</sub> (W)    | 450                                  | 455               | 460               | 465               | 470               | 475               |
|                                            | Open Circuit Voltage       | V <sub>oc</sub> (V)     | 35.95                                | 36.10             | 36.25             | 36.40             | 36.55             | 36.70             |
|                                            | Short Circuit Current      | I <sub>sc</sub> (A)     | 15.81                                | 15.85             | 15.89             | 15.92             | 15.95             | 15.97             |
|                                            | Voltage at Maximum Power   | V <sub>mp</sub> (V)     | 29.81                                | 30.06             | 30.31             | 30.56             | 30.80             | 31.05             |
|                                            | Current at Maximum Power   | I <sub>mp</sub> (A)     | 15.1                                 | 15.14             | 15.18             | 15.22             | 15.26             | 15.30             |
|                                            | Module Efficiency          | (%)                     | 22.52                                | 22.77             | 23.02             | 23.27             | 23.52             | 23.77             |
| Temperature Rating                         | Temperature Coefficient    | P <sub>max</sub> (%/°C) | -0.28                                |                   |                   |                   |                   |                   |
|                                            | Temperature Coefficient    | V <sub>oc</sub> (%/°C)  | -0.24                                |                   |                   |                   |                   |                   |
|                                            | Temperature Coefficient    | I <sub>sc</sub> (%/°C)  | 0.046                                |                   |                   |                   |                   |                   |
| Operating Parameters                       | Operating Temperature      | °C                      | -40~+70                              |                   |                   |                   |                   |                   |
|                                            | Maximum System Voltage     |                         | 1500V DC                             |                   |                   |                   |                   |                   |
|                                            | Maximum Series Fuse Rating | A                       | 30                                   |                   |                   |                   |                   |                   |
|                                            | Power Selection Tolerance  | %                       | 0~+3                                 |                   |                   |                   |                   |                   |
|                                            | Fire Class Rating          | -                       | Class C                              |                   |                   |                   |                   |                   |
|                                            | T <sub>as</sub>            | -                       | 70°C                                 |                   |                   |                   |                   |                   |
| Mechanical Parameters                      | Cell Type                  | -                       | N Type Monocrystalline Cell          |                   |                   |                   |                   |                   |
|                                            | Cell Orientation           | -                       | 96 (6x16)                            |                   |                   |                   |                   |                   |
|                                            | Dimension (L × W × H)      | mm                      | 1762±2 x 1134±2 x 30                 |                   |                   |                   |                   |                   |
|                                            | Weight                     | kg                      | 22.8                                 |                   |                   |                   |                   |                   |
|                                            | Front Glass                | -                       | 2.0mm AR Coated semi tempered glass  |                   |                   |                   |                   |                   |
|                                            | Rear Glass                 | -                       | 2.0mm semi tempered glass            |                   |                   |                   |                   |                   |
|                                            | Frame                      | -                       | Anodised aluminium alloy black frame |                   |                   |                   |                   |                   |
|                                            | Junction Box               | -                       | IP68, 3 Diodes                       |                   |                   |                   |                   |                   |
|                                            | Cable                      | mm <sup>2</sup>         | 4                                    |                   |                   |                   |                   |                   |
|                                            | Cable Length               | mm                      | 1200                                 |                   |                   |                   |                   |                   |
|                                            | Connector                  | -                       | Stäubli - PV-KS(B)T4-EVO2A/xy        |                   |                   |                   |                   |                   |
|                                            | Test Load                  | Pa                      | -2400 / +5400                        |                   |                   |                   |                   |                   |
|                                            | Per Pallet                 | -                       | 36 Pieces                            |                   |                   |                   |                   |                   |
|                                            | Packaging                  | -                       | 936 Pieces per 40' HC                |                   |                   |                   |                   |                   |

<sup>(A)</sup>STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Air Mass 1.5, Power Measurement Tolerance: ±3%, Voc and Isc Measurement Tolerance: ±5%.



Statement: With technical progress and product updates, there exists a deviation between technical parameter of Rinnai's future products and the technical parameter in this specification. Rinnai reserves the right to adjust the technical parameter at any time without notifying the customers. Rinnai reserves the final right of interpretation. Made in China

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[rinnai.com.au](http://rinnai.com.au)

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