

## BIFACIAL MODULE WITH DUAL GLASS

# RS6-570~595N BG-E3

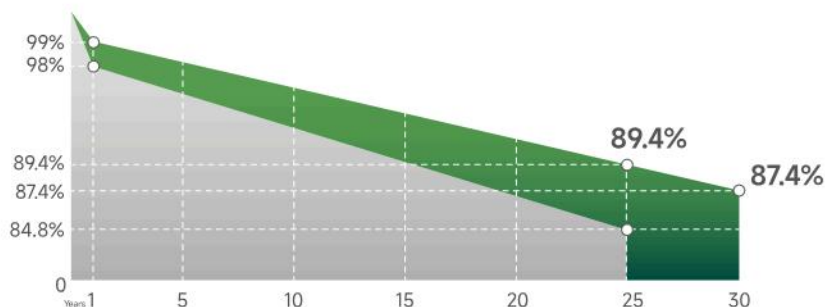


N-Type /Positive power tolerance of 0~+3% /Max module efficiency 23.03%

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
  - Non destructive cutting ·MBB half-cut
- Excellent power generation performance
  - Excellent IAM and low irradiation performance ·Lower temperature coefficient
  - 0.40% linear Power decline
- High module quality ensures long-term reliability
  - Strict selected material ·Advanced technology ·Leading standard
- Ultra-hydrophilic self-cleaning coating techniques
- Enhanced Mechanical Load
  - Mechanical performance up to 5400pa positive load and 2400pa negative load

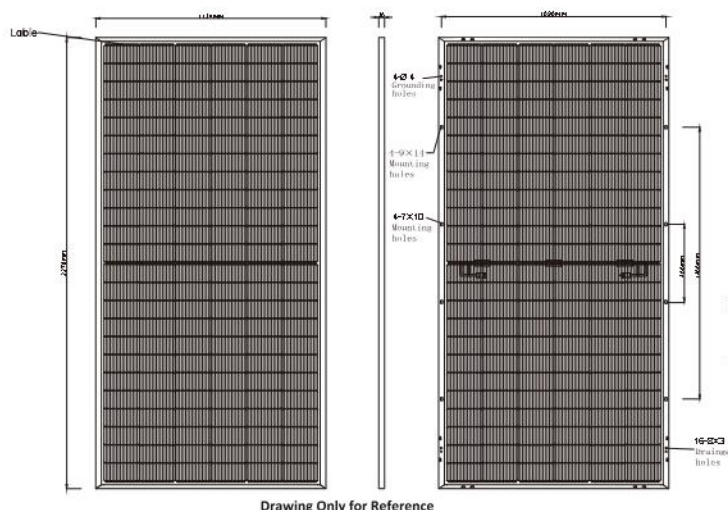
Complete System  
and IEC Product Certification

IEC 61215(2016), IEC 61730(2016) ISO9001:  
2015:Quality Management System ISO14001:  
2015:Environment Management System  
ISO45001:2018:Occupational Health  
and Safety Management System



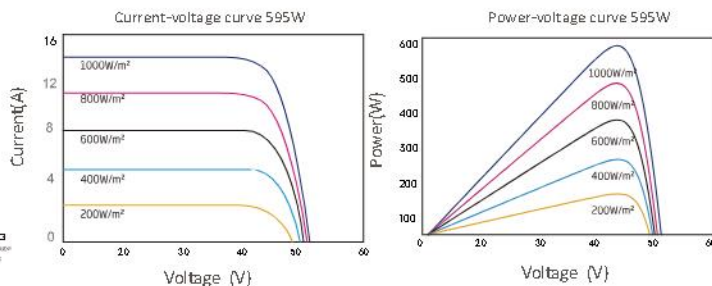
30-Year Excess Linear Power Output Warranty





Drawing Only for Reference

# Rene 2N RS6-570~595NBG-E3 BIFACIAL MODULE WITH DUAL GLASS



| Electrical Characteristics STC | RS6-570NBG-E3 | RS6-575NBG-E3 | RS6-580NBG-E3 | RS6-585NBG-E3 | RS6-590NBG-E3 | RS6-595NBG-E3 |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax)           | 570W          | 575W          | 580W          | 585W          | 590W          | 595W          |
| Power Tolerance                | 0~+5W         | 0~+5W         | 0~+5W         | 0~+5W         | 0~+5W         | 0~+5W         |
| Module Efficiency              | 22.07%        | 22.26%        | 22.45%        | 22.65%        | 22.84%        | 23.03%        |
| Maximum Power Current (Imp)    | 13.08A        | 13.15A        | 13.22A        | 13.29A        | 13.36A        | 13.43A        |
| Maximum Power Voltage (Vmp)    | 43.58V        | 43.73V        | 43.88V        | 44.02V        | 44.16V        | 44.30V        |
| Short Circuit Current (Isc)    | 13.83A        | 13.89A        | 13.95A        | 14.01A        | 14.07A        | 14.13A        |
| Open Circuit Voltage (Voc)     | 52.61V        | 52.81V        | 53.01V        | 53.21V        | 53.41V        | 53.61V        |

Values at Standard Test Conditions STC (AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

| Electrical Characteristics NOCT | RS6-570NBG-E3 | RS6-575NBG-E3 | RS6-580NBG-E3 | RS6-585NBG-E3 | RS6-590NBG-E3 | RS6-595NBG-E3 |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax)            | 432W          | 436W          | 440W          | 444W          | 448W          | 452W          |
| Maximum Power Current (Imp)     | 10.65A        | 10.70A        | 10.75A        | 10.80A        | 10.85A        | 10.90A        |
| Maximum Power Voltage (Vmp)     | 40.56V        | 40.75V        | 40.93V        | 41.11V        | 41.29V        | 41.47V        |
| Short Circuit Current (Isc)     | 11.28A        | 11.33A        | 11.38A        | 11.43A        | 11.48A        | 11.53A        |
| Open Circuit Voltage (Voc)      | 49.40V        | 49.59V        | 49.77V        | 49.96V        | 50.15V        | 50.34V        |

NOCT, Irradiance of 800W/m², AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

| Electrical Characteristics with 10% rear side power gain | RS6-570NBG-E3 | RS6-575NBG-E3 | RS6-580NBG-E3 | RS6-585NBG-E3 | RS6-590NBG-E3 | RS6-595NBG-E3 |
|----------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax)                                     | 627W          | 633W          | 638W          | 644W          | 649W          | 655W          |
| Maximum Power Current (Imp)                              | 14.39A        | 14.46A        | 14.54A        | 14.62A        | 14.70A        | 14.77A        |
| Maximum Power Voltage (Vmp)                              | 43.58V        | 43.73V        | 43.88V        | 44.02V        | 44.16V        | 44.30V        |
| Short Circuit Current (Isc)                              | 15.21A        | 15.28A        | 15.35A        | 15.41A        | 15.48A        | 15.54A        |
| Open Circuit Voltage (Voc)                               | 52.61V        | 52.81V        | 53.01V        | 53.21V        | 53.41V        | 53.61V        |

## Mechanical Characteristics

|              |                                                           |
|--------------|-----------------------------------------------------------|
| Cell Type    | Mono N-Type, 144(6×24) Half-Cut cells                     |
| Glass        | 2mm+2mm, High Transmission, Low Iron, Semi-Tempered glass |
| Frame        | Anodized Aluminum Alloy                                   |
| Junction Box | IP68 Rated                                                |
| Dimension    | 2278x1134x30mm                                            |
| Output Cable | 4mm²(EU), 300mm, length can be customized                 |
| Weight       | 31.7kg                                                    |
| Connector    | MC4 Compatible                                            |

## Packing Information

|                       |        |
|-----------------------|--------|
| Container             | 40' HQ |
| Pallets per Container | 20     |
| Pieces per Container  | 740    |

## Characteristics

|                                          |             |
|------------------------------------------|-------------|
| Temperature Coefficient of Voc           | -0.25%/°C   |
| Temperature Coefficient of Isc           | +0.045%/°C  |
| Temperature Coefficient of Pmax          | -0.29%/°C   |
| Nominal Operating Cell Temperature(NOCT) | 43±2°C      |
| Fire Performance                         | IEC Class C |

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## Maximum Ratings

|                            |             |
|----------------------------|-------------|
| Operating Temperature      | -40°C~+85°C |
| Maximum System Voltage     | 1500VDC     |
| Maximum Series Fuse Rating | 30A         |

