

## BIFACIAL MODULE WITH DUAL GLASS

# RS5J-635~650NBG-E1

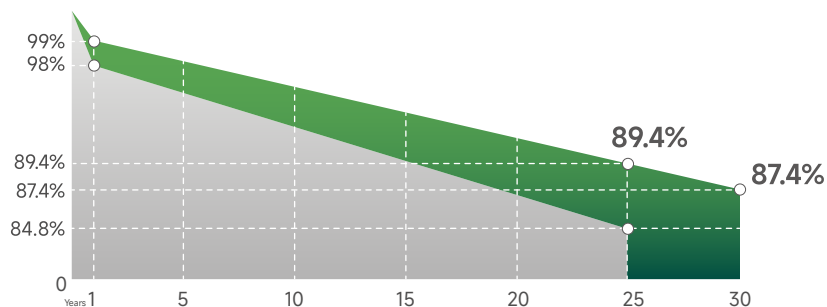
N-Type /Positive power tolerance of  $\pm 3\%$ /Max module efficiency 24.06%

- 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
- Enhanced Mechanical Load
  - Mechanical performance up to 5400pa positive load and 2400pa negative load



### Complete System and IEC Product Certification

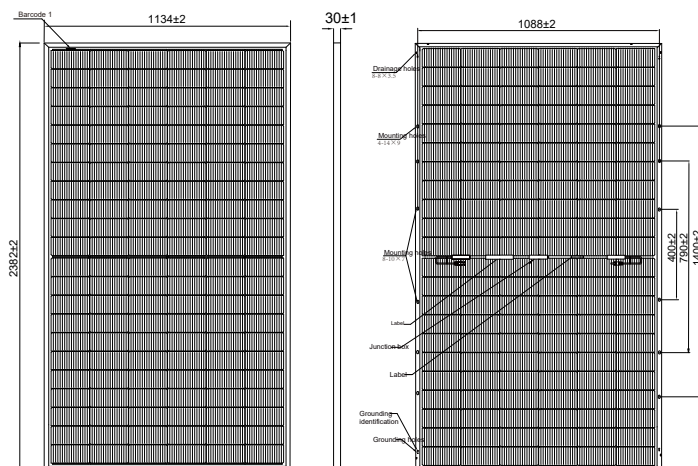
IEC 61215:2021, IEC 61730:2023, ISO9001  
 2015: Quality Management System ISO14001:  
 2015: Environment Management System  
 ISO45001: 2018: Occupational Health and Safety Management System



**30-Year Excess Linear Power Output Warranty**  
 The power performance warranty is for front side only.

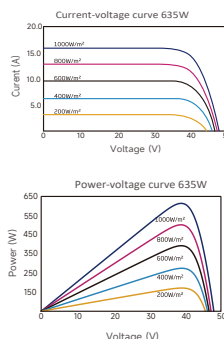
BLOOMBERG  
**TIER 1**  
 Global  
 Leading Brand





# RS5J-635~650NBG-E1

BIFACIAL MODULE WITH DUAL GLASS



Drawing Only for Reference

| Electrical Characteristics STC | RS5J-635NBG-E1 | RS5J-640NBG-E1 | RS5J-645NBG-E1 | RS5J-650NBG-E1 |
|--------------------------------|----------------|----------------|----------------|----------------|
| Maximum Power (Pmax)           | 635W           | 640W           | 645W           | 650W           |
| Power Tolerance                | 0~+5W          | 0~+5W          | 0~+5W          | 0~+5W          |
| Module Efficiency              | 23.51%         | 23.69%         | 23.88%         | 24.06%         |
| Maximum Power Current (Imp)    | 15.41A         | 15.46A         | 15.51A         | 15.56A         |
| Maximum Power Voltage (Vmp)    | 41.21V         | 41.40V         | 41.59V         | 41.77V         |
| Short Circuit Current (Isc)    | 16.26A         | 16.32A         | 16.38A         | 16.44A         |
| Open Circuit Voltage (Voc)     | 49.68V         | 49.88V         | 50.08V         | 50.28V         |

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)  
Tolerance of Power/Voc/Isc : ±3%/±3%/±3%

| Electrical Characteristics BNPI/BSI | RS5J-635NBG-E1 | RS5J-640NBG-E1 | RS5J-645NBG-E1 | RS5J-650NBG-E1 |
|-------------------------------------|----------------|----------------|----------------|----------------|
| Backside Power Gain                 | BNPI           | BNPI           | BNPI           | BNPI           |
| Maximum Power (Pmax)                | 704W           | 709W           | 715W           | 720W           |
| Maximum Power Current (Imp)         | 17.07A         | 17.13A         | 17.19A         | 17.24A         |
| Maximum Power Voltage (Vmp)         | 41.21V         | 41.40V         | 41.59V         | 41.77V         |
| Short Circuit Current (Isc)         | 18.02A         | 18.08A         | 18.15A         | 18.22A         |
| Short Circuit Current (BSI Isc)     | 20.16A         | 20.24A         | 20.31A         | 20.39A         |
| Open Circuit Voltage (Voc)          | 49.68V         | 49.88V         | 50.08V         | 50.28V         |

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Ambient Temperature 25°C, AM=1.5.  
Short-circuit current bifaciality coefficient:(80±5)%; Open circuit voltage bifaciality coefficient:(98±5)%; Maximum power bifaciality coefficient:(80±5)%;

| Electrical Characteristics rear side power gain | RS5J-635NBG-E1 |        | RS5J-640NBG-E1 |        | RS5J-645NBG-E1 |        | RS5J-650NBG-E1 |        |
|-------------------------------------------------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|
| Backside Power Gain                             | 5%             | 10%    | 5%             | 10%    | 5%             | 10%    | 5%             | 10%    |
| Maximum Power (Pmax)                            | 667W           | 699W   | 672W           | 704W   | 677W           | 710W   | 683W           | 715W   |
| Maximum Power Current (Imp)                     | 16.18A         | 16.95A | 16.23A         | 17.01A | 16.29A         | 17.06A | 16.34A         | 17.12A |
| Maximum Power Voltage (Vmp)                     | 41.21V         | 41.21V | 41.40V         | 41.40V | 41.59V         | 41.59V | 41.77V         | 41.77V |
| Short Circuit Current (Isc)                     | 17.07A         | 17.89A | 17.14A         | 17.95A | 17.20A         | 18.02A | 17.26A         | 18.08A |
| Open Circuit Voltage (Voc)                      | 49.68V         | 49.68V | 49.88V         | 49.88V | 50.08V         | 50.08V | 50.28V         | 50.28V |

Module Temperature rating [T8] max of 70°C

| Mechanical Characteristics |                                                        |
|----------------------------|--------------------------------------------------------|
| Cell Type                  | Mono N-Type,132(6×22) Half-Cut cells                   |
| Glass                      | 2mm+2mm,High Transmission,Low Iron,Semi-Tempered glass |
| Frame                      | Anodized Aluminum Alloy                                |
| Junction Box               | IP68 Rated                                             |
| Dimension                  | 2382x1134x30mm                                         |
| Output Cable               | 4mm2(EU),+200mm,-300mm or Customized                   |
| Weight                     | 32.4kg                                                 |
| Installation Hole Location | See Drawing Above                                      |

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

| Characteristics                          |           |
|------------------------------------------|-----------|
| Temperature Coefficient of Voc           | -0.24%/°C |
| Temperature Coefficient of Isc           | +0.04%/°C |
| Temperature Coefficient of Pmax          | -0.29%/°C |
| Nominal Operating Cell Temperature(NOCT) | 43±2°C    |
| Fire Performance                         | 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 | 35A         |

