

## BIFACIAL MODULE WITH DUAL GLASS

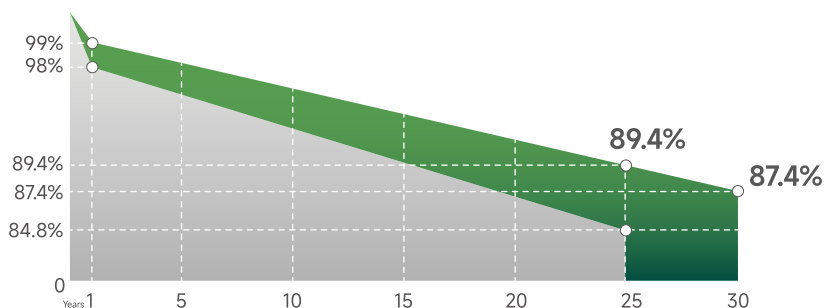
# RS5-535~555NBG-E2

N-Type /Positive power tolerance of 0~+3%/Max module efficiency 23.37%

- 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 Weak light response · Low temperature ratings
  - 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, IEC 61730 ISO9001:  
2015: Quality Management System ISO14001:  
2015: Environment Management System  
ISO45001:2018: Occupational Health  
and Safety Management System



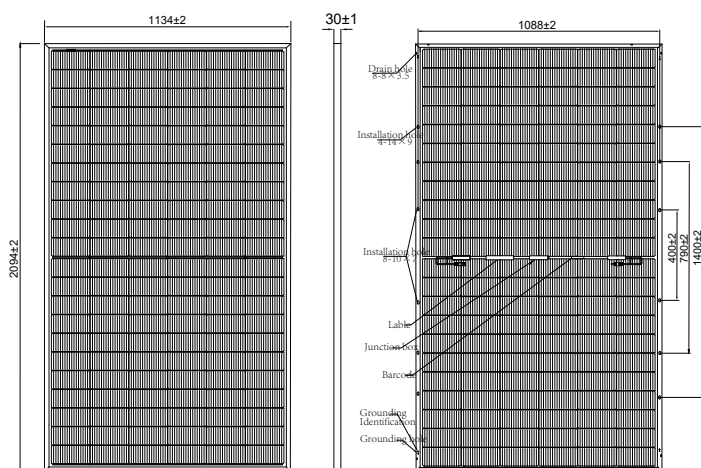
30-Year Excess Linear Power Output Warranty

BLOOMBERG  
**TIER 1**  
Global  
Leading Brand

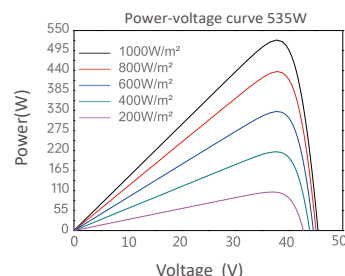
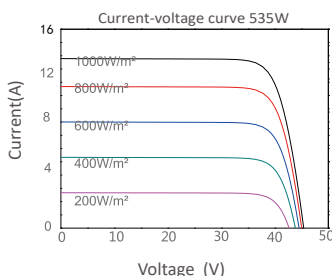


# RS5-535~555NBG-E2

BIFACIAL MODULE WITH DUAL GLASS



Drawing Only for Reference



| Electrical Characteristics STC | RS5-535NBG-E2 | RS5-540NBG-E2 | RS5-545NBG-E2 | RS5-550NBG-E2 | RS5-555NBG-E2 |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax)           | 535W          | 540W          | 545W          | 550W          | 555W          |
| Power Tolerance                | 0~+5W         | 0~+5W         | 0~+5W         | 0~+5W         | 0~+5W         |
| Module Efficiency              | 22.53%        | 22.74%        | 22.95%        | 23.16%        | 23.37%        |
| Maximum Power Current (Imp)    | 13.29A        | 13.36A        | 13.43A        | 13.50A        | 13.57A        |
| Maximum Power Voltage (Vmp)    | 40.26V        | 40.42V        | 40.58V        | 40.74V        | 40.90V        |
| Short Circuit Current (Isc)    | 14.01A        | 14.07A        | 14.13A        | 14.19A        | 14.25A        |
| Open Circuit Voltage (Voc)     | 48.59V        | 48.84V        | 49.08V        | 49.32V        | 49.56V        |

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C)

| Electrical Characteristics BNPI | RS5-535NBG-E2 | RS5-540NBG-E2 | RS5-545NBG-E2 | RS5-550NBG-E2 | RS5-555NBG-E2 |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax)            | 593W          | 598W          | 604W          | 609W          | 615W          |
| Maximum Power Current (Imp)     | 14.73A        | 14.80A        | 14.88A        | 14.96A        | 15.04A        |
| Maximum Power Voltage (Vmp)     | 40.26V        | 40.42V        | 40.58V        | 40.74V        | 40.90V        |
| Short Circuit Current (Isc)     | 15.52A        | 15.59A        | 15.66A        | 15.72A        | 15.79A        |
| Open Circuit Voltage (Voc)      | 48.59V        | 48.84V        | 49.08V        | 49.32V        | 49.56V        |

BNPI: Irradiance: Front 1000W/m<sup>2</sup>, Rear 135W/m<sup>2</sup>, Ambient Temperature 25°C, AM=1.5, Power Bifaciality: 80±5%.

| Electrical Characteristics rear side power gain | RS5-535NBG-E2 |        | RS5-540NBG-E2 |        | RS5-545NBG-E2 |        | RS5-550NBG-E2 |        | RS5-555NBG-E2 |        |
|-------------------------------------------------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|
| Backside Power Gain                             | 5%            | 10%    | 5%            | 10%    | 5%            | 10%    | 5%            | 10%    | 5%            | 10%    |
| Maximum Power (Pmax)                            | 562W          | 589W   | 567W          | 594W   | 572W          | 600W   | 578W          | 605W   | 583W          | 611W   |
| Maximum Power Current (Imp)                     | 13.95A        | 14.62A | 14.03A        | 14.70A | 14.10A        | 14.77A | 14.18A        | 14.85A | 14.25A        | 14.93A |
| Maximum Power Voltage (Vmp)                     | 40.26V        | 40.26V | 40.42V        | 40.42V | 40.58V        | 40.58V | 40.74V        | 40.74V | 40.90V        | 40.90V |
| Short Circuit Current (Isc)                     | 14.71A        | 15.41A | 14.77A        | 15.48A | 14.84A        | 15.54A | 14.90A        | 15.61A | 14.96A        | 15.68A |
| Open Circuit Voltage (Voc)                      | 48.59V        | 48.59V | 48.84V        | 48.84V | 49.08V        | 49.08V | 49.32V        | 49.32V | 49.56V        | 49.56V |

## 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    | 2094x1134x30mm                                            |
| Output Cable | 4mm <sup>2</sup> (EU), +200mm, -300mm or Customized       |
| Weight       | 30.5kg                                                    |
| Connector    | MC4 Compatible                                            |

## Packing Information

|                       |        |
|-----------------------|--------|
| Container             | 40' HQ |
| Pallets per Container | 22     |
| Pieces per Container  | 814    |

## 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         |

