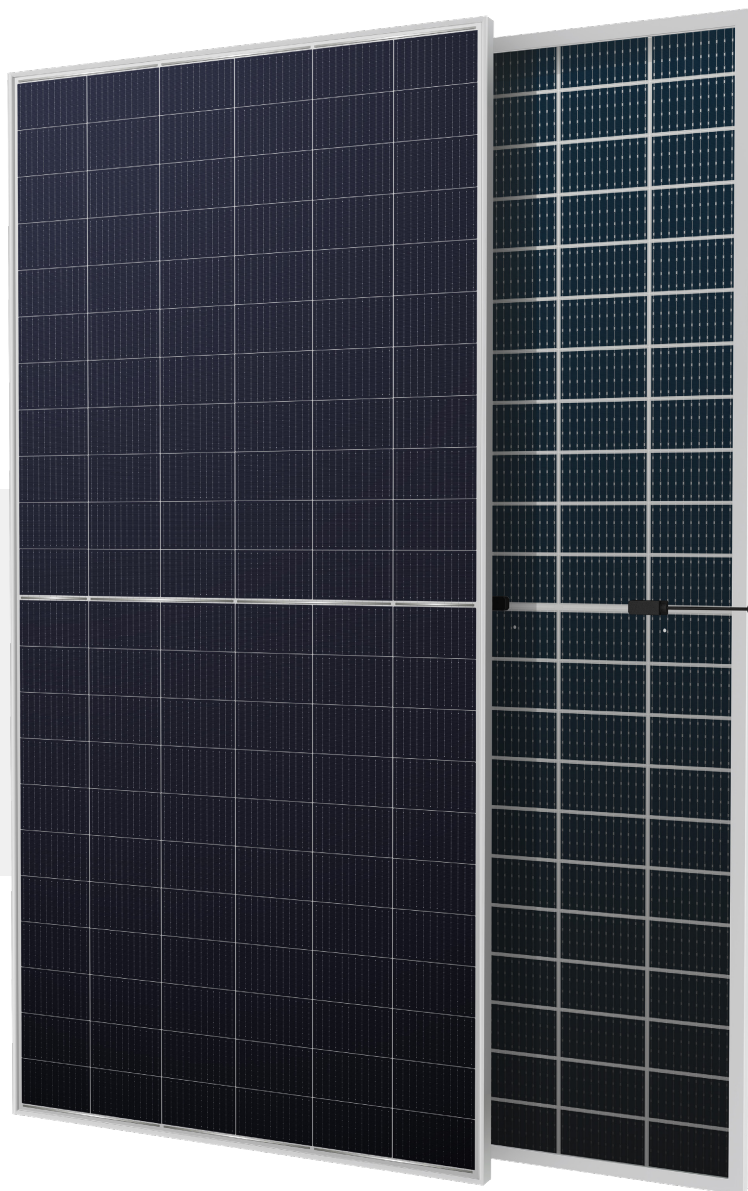


BIFACIAL MODULE WITH DUAL GLASS

RS9-650~670MBG-E1

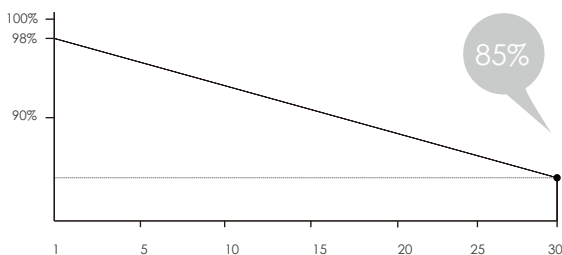
P-Type /Positive power tolerance of 0~+3%/Max module efficiency 21.57%

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
 - Gallium-doped Wafer · Non destructive cutting · MBB half-cut
- Excellent power generation performance
 - Excellent IAM and Weak light response · Low temperature ratings
 - 0.45% linear Power decline
- High module quality ensures long-term reliability
 - Strict selected material · Advanced technology · Leading standard
- Ultra-hydrophilic self-cleaning coating techniques



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

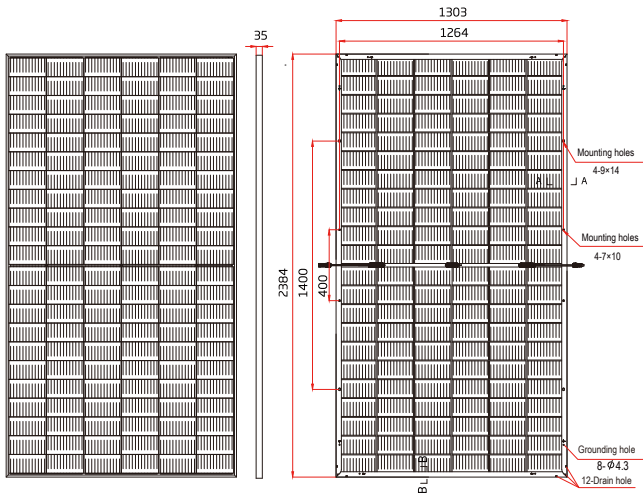


30-Year excess linear power output warranty

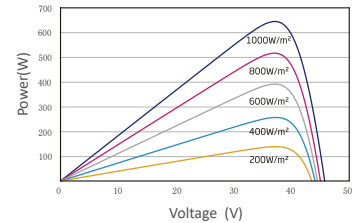
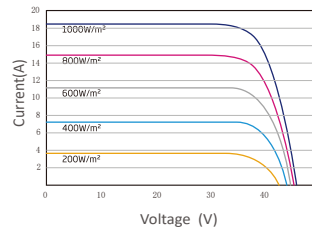


RS9-650~670MBG-E1

BIFACIAL MODULE WITH DUAL GLASS



Drawing Only for Reference



| Electrical Characteristics STC | RS9-650MBG-E1 | RS9-655MBG-E1 | RS9-660MBG-E1 | RS9-665MBG-E1 | RS9-670MBG-E1 |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax) | 650W | 655W | 660W | 665W | 670W |
| Power Tolerance | 0~+5W | 0~+5W | 0~+5W | 0~+5W | 0~+5W |
| Module Efficiency | 20.92% | 21.09% | 21.25% | 21.41% | 21.57% |
| Maximum Power Current (Imp) | 17.27A | 17.31A | 17.35A | 17.39A | 17.43A |
| Maximum Power Voltage (Vmp) | 37.70V | 37.90V | 38.10V | 38.30V | 38.50V |
| Short Circuit Current (Isc) | 18.35A | 18.40A | 18.45A | 18.50A | 18.55A |
| Open Circuit Voltage (Voc) | 45.50V | 45.70V | 45.90V | 46.10V | 46.30V |

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

| Electrical Characteristics NMOT | RS9-650MBG-E1 | RS9-655MBG-E1 | RS9-660MBG-E1 | RS9-665MBG-E1 | RS9-670MBG-E1 |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax) | 492W | 495W | 499W | 504W | 509W |
| Maximum Power Current (Imp) | 14.01A | 14.05A | 14.10A | 14.16A | 14.23A |
| Maximum Power Voltage (Vmp) | 35.10V | 35.20V | 35.40V | 35.60V | 35.80V |
| Short Circuit Current (Isc) | 14.79A | 14.83A | 14.87A | 14.91A | 14.95A |
| Open Circuit Voltage (Voc) | 42.90V | 43.00V | 43.20V | 43.40V | 43.60V |

NMOT(Nominal module operating temperature) , Irradiance of 800W/m, AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

| Electrical Characteristics with 21% rear side power gain | RS9-650MBG-E1 | RS9-655MBG-E1 | RS9-660MBG-E1 | RS9-665MBG-E1 | RS9-670MBG-E1 |
|--|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax) | 786.5W | 792.6W | 798.6W | 804.7W | 810.7W |
| Maximum Power Current (Imp) | 20.90A | 20.95A | 20.99A | 21.04A | 21.09A |
| Maximum Power Voltage (Vmp) | 37.70V | 37.90V | 38.10V | 38.30V | 38.50V |
| Short Circuit Current (Isc) | 22.20A | 22.26A | 22.32A | 22.39A | 22.45A |
| Open Circuit Voltage (Voc) | 45.50V | 45.70V | 45.90V | 46.10V | 46.30V |

Mechanical Characteristics

| | |
|----------------------------|--|
| Cell Type | MonoP-Type, 210x210(±1)mm, 132(6x22)Half-Cut cells |
| Glass | 2mm+2mm, High Transmission, Low Iron, Tempered Glass |
| Frame | Anodized Aluminum Alloy |
| Junction Box | 1P68 Rated, With Bypass Diodes |
| Dimension | 2384×1303×35mm |
| Output Cable | 4 mm2 (EU), 300 mm, length can be customized |
| Weight | 38.7kg |
| Installation Hole Location | See Drawing Above |

Packing Information

| | |
|-----------------------|--------|
| Container | 40' HQ |
| Pallets per Container | 18 |
| Pieces per Container | 558 |

Characteristics

| | |
|---|------------|
| Temperature Coefficient of Voc | -0.27%/°C |
| Temperature Coefficient of Isc | +0.04%/°C |
| Temperature Coefficient of Pmax | -0.35%/°C |
| Nominal Operating Cell Temperature (NOCT) | 45°C ± 2°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 |

