

BIFACIAL MODULE WITH DUAL GLASS

# RS41-430~450NBG-E3



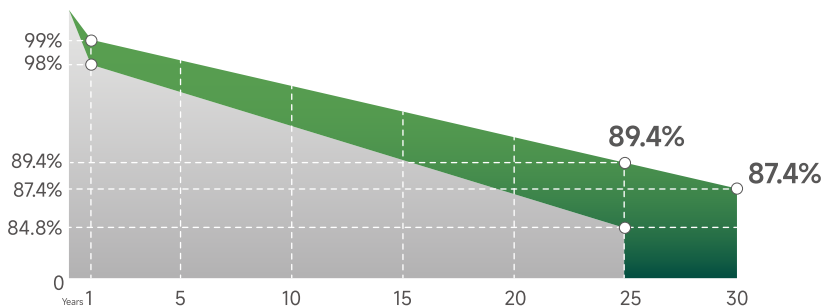
N-Type /Positive power tolerance of 0~+3%/Max module efficiency 23.04%

- 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

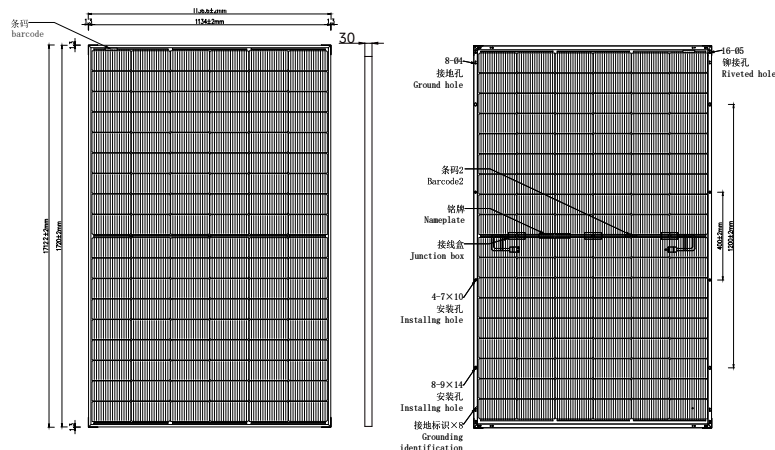


30-Year Excess Linear Power Output Warranty

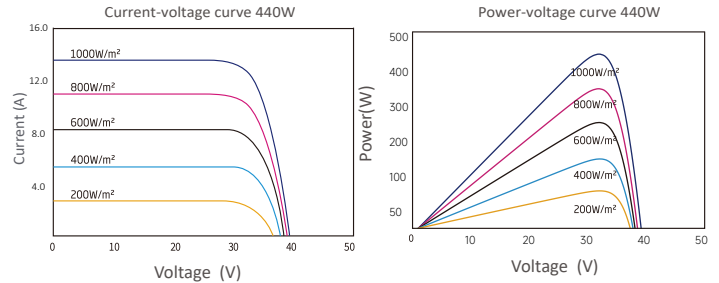


# RS41-430~450NBG-E3

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Drawing Only for Reference



Electrical Characteristics STC	RS41-430NBG-E3	RS41-435NBG-E3	RS41-440NBG-E3	RS41-445NBG-E3	RS41-450NBG-E3
Maximum Power (Pmax)	430W	435W	440W	445W	450W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	22.02%	22.28%	22.53%	22.79%	23.04%
Maximum Power Current (Imp)	13.17A	13.24A	13.31A	13.38A	13.45A
Maximum Power Voltage (Vmp)	32.65V	32.85V	33.06V	33.26V	33.46V
Short Circuit Current (Isc)	13.69A	13.77A	13.85A	13.93A	14.01A
Open Circuit Voltage (Voc)	39.51V	39.74V	39.96V	40.18V	40.40V

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

Electrical Characteristics NOCT	RS41-430NBG-E3	RS41-435NBG-E3	RS41-440NBG-E3	RS41-445NBG-E3	RS41-450NBG-E3
Maximum Power (Pmax)	326W	330W	334W	338W	342W
Maximum Power Current (Imp)	10.74A	10.80A	10.86A	10.93A	10.99A
Maximum Power Voltage (Vmp)	30.36V	30.56V	30.74V	30.93V	31.12V
Short Circuit Current (Isc)	11.34A	11.41A	11.49A	11.56A	11.63A
Open Circuit Voltage (Voc)	37.14V	37.35V	37.56V	37.77V	37.98V

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

Electrical Characteristics with 10% rear side power gain	RS41-430NBG-E3	RS41-435NBG-E3	RS41-440NBG-E3	RS41-445NBG-E3	RS41-450NBG-E3
Maximum Power (Pmax)	473W	479W	484W	490W	495W
Maximum Power Current (Imp)	14.49A	14.56A	14.64A	14.72A	14.80A
Maximum Power Voltage (Vmp)	32.65V	32.85V	33.06V	33.26V	33.46V
Short Circuit Current (Isc)	15.06A	15.15A	15.24A	15.32A	15.41A
Open Circuit Voltage (Voc)	39.51V	39.74V	39.96V	40.18V	40.40V

## Mechanical Characteristics

Cell Type	Mono N-Type, 108(6×18) Half-Cut cells
Glass	2mm+2mm, High Transmission, Low Iron, Semi-Tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Dimension	1722x1134x30mm
Output Cable	4mm²(EU), 300mm, length can be customized
Weight	24.5kg
Connector	MC4 Compatible

## Packing Information

Container	40' HQ
Pallets per Container	26
Pieces per Container	962

## 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

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

