

BIFACIAL MODULE WITH DUAL GLASS

RS41J-520~545NBG-E1

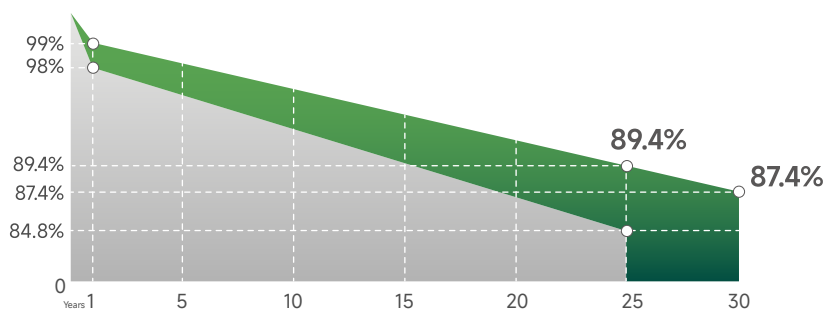
N-Type /Positive power tolerance of 0~+3%/Max module efficiency 24.51%

- 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

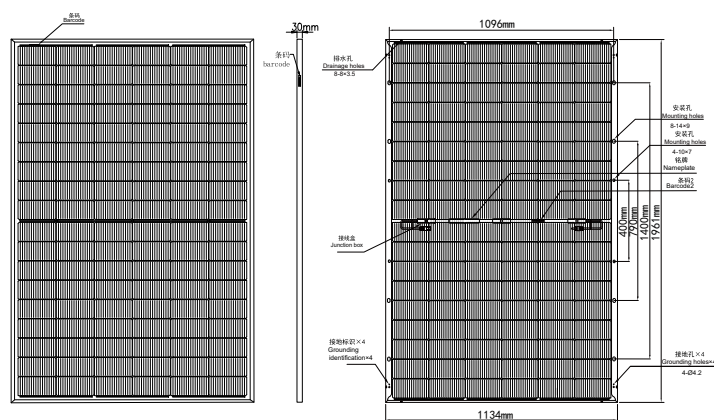
IEC61215, IEC61730, ISO9001:
2015: Quality Management System ISO14001:
2015: Environment Management System
ISO45001:2018: Occupational Health
and Safety Management System



30-Year excess linear power output warranty

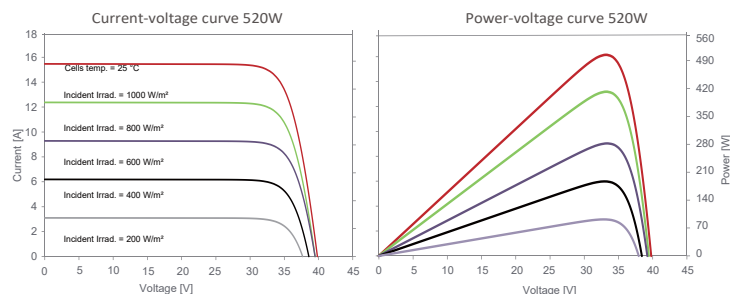
BLOOMBERG
TIER 1
Global
Leading Brand





RS41J-520~545NBG-E1

BIFACIAL MODULE WITH DUAL GLASS



Electrical Characteristics STC	RS41J-520NBG-E1	RS41J-525NBG-E1	RS41J-530NBG-E1	RS41J-535NBG-E1	RS41J-540NBG-E1	RS41J-545NBG-E1
Maximum Power (Pmax)	520W	525W	530W	535W	540W	545W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	23.38%	23.61%	23.83%	24.06%	24.28%	24.51%
Maximum Power Current (Imp)	15.13A	15.16A	15.19A	15.22A	15.25A	15.28A
Maximum Power Voltage (Vmp)	34.37V	34.63V	34.89V	35.15V	35.41V	35.67V
Short Circuit Current (Isc)	15.97A	16.02A	16.07A	16.12A	16.17A	16.22A
Open Circuit Voltage (Voc)	41.08V	41.33V	41.58V	41.83V	42.08V	42.33V

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

Electrical Characteristics BNPI	RS41J-520NBG-E1	RS41J-525NBG-E1	RS41J-530NBG-E1	RS41J-535NBG-E1	RS41J-540NBG-E1	RS41J-545NBG-E1
Maximum Power (Pmax)	576W	582W	587W	593W	598W	604W
Maximum Power Current (Imp)	16.76A	16.80A	16.83A	16.86A	16.90A	16.93A
Maximum Power Voltage (Vmp)	34.37V	34.63V	34.89V	35.15V	35.41V	35.67V
Short Circuit Current (Isc)	17.69A	17.75A	17.81A	17.86A	17.92A	17.97A
Open Circuit Voltage (Voc)	41.08V	41.33V	41.58V	41.83V	42.08V	42.33V

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Ambient Temperature 25°C, AM=1.5, Power Bifaciality: 80±5%.

Electrical Characteristics rear side power gain	RS41J-520NBG-E1	RS41J-525NBG-E1	RS41J-530NBG-E1	RS41J-535NBG-E1	RS41J-540NBG-E1	RS41J-545NBG-E1
Backside Power Gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Maximum Power (Pmax)	546W 572W	551W 578W	557W 583W	562W 589W	567W 594W	572W 600W
Maximum Power Current (Imp)	15.89A 16.64A	15.92A 16.68A	15.95A 16.71A	15.98A 16.74A	16.01A 16.78A	16.04A 16.81A
Maximum Power Voltage (Vmp)	34.37V 34.37V	34.63V 34.63V	34.89V 34.89V	35.15V 35.15V	35.41V 35.41V	35.67V 35.67V
Short Circuit Current (Isc)	16.77A 17.57A	16.82A 17.62A	16.87A 17.68A	16.93A 17.73A	16.98A 17.79A	17.03A 17.84A
Open Circuit Voltage (Voc)	41.08V 41.08V	41.33V 41.33V	41.58V 41.58V	41.83V 41.83V	42.08V 42.08V	42.33V 42.33V

Mechanical Characteristics	
Cell Type	MonoN-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	1961×1134×30mm
Output Cable	4mm²(EU), +200mm, -300mm or Customized
Weight	28.1kg
Installation Hole Location	MC4 Compatible

Packing Information	
Container	40' HQ
Pallets per Container	24
Pieces per Container	888

Characteristics	
Temperature Coefficient of Voc	-0.26%/°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

