Rene 5 N

ReneSola

BIFACIAL MODULE WITH DUAL GLASS

RS42J-465~485NBG-E1

N-Type /Positive power tolerance of 0~+3%/Max module efficiency 24.27%

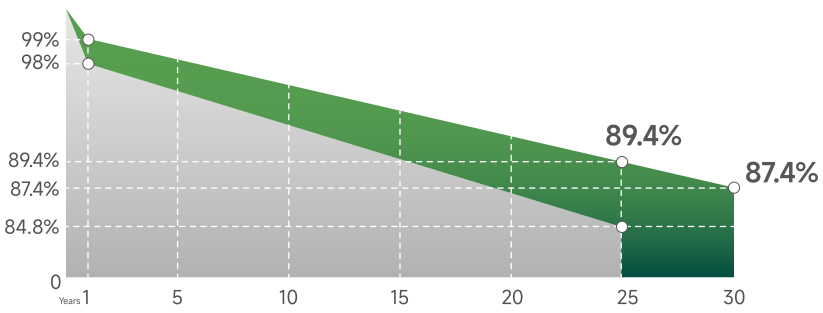
- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
  ·Non destructive cutting ·MBB half-cut
- Excellent power generation performance
  ·Excellent IAM and low irradiation performance ·Lower temperature coefficient
  ·0.40% linear Power decline
- High module quality ensures long-term reliability
  ·Strict selected material ·Advanced technology ·Leading standard
- Enhanced Mechanical Load
  · Mechanical performance up to5400pa 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

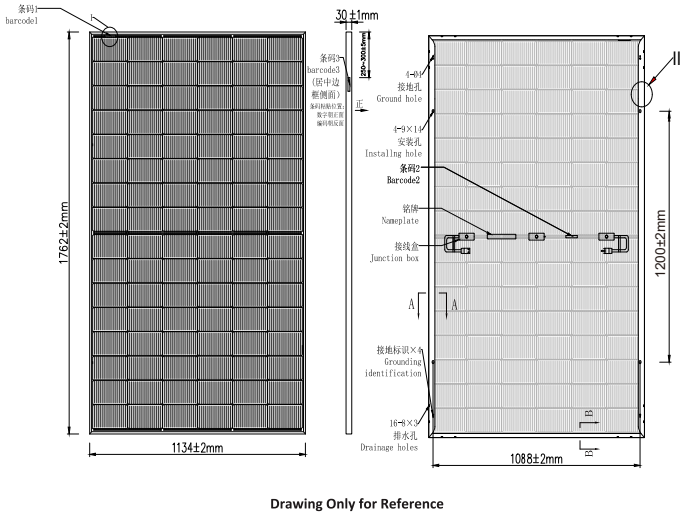
15 -Year Material & Workmanship

30 -Year Linear Power Output



30-Year Excess Linear Power Output Warranty

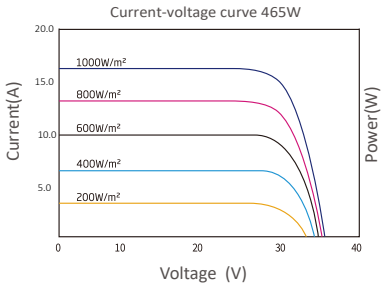
BLOOMBERG TIER 1 Global Leading Brand

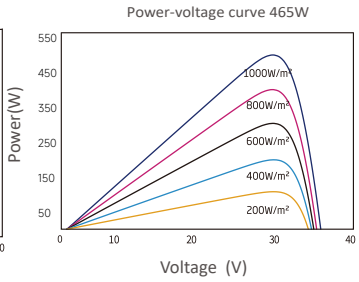


Drawing Only for Reference

RS42J-465~485NBG-E1

BIFACIAL MODULE WITH DUAL GLASS





Electrical Characteristics STC	RS42J-465NBG-E1	RS42J-470NBG-E1	RS42J-475NBG-E1	RS42J-480NBG-E1	RS42J-485NBG-E1
Maximum Power (Pmax)	465W	470W	475W	480W	485W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	23.27%	23.52%	23.77%	24.02%	24.27%
Maximum Power Current (Imp)	15.03A	15.08A	15.13A	15.18A	15.23A
Maximum Power Voltage (Vmp)	30.94V	31.17V	31.39V	31.62V	31.85V
Short Circuit Current (Isc)	15.81A	15.86A	15.91A	15.96A	16.01A
Open Circuit Voltage (Voc)	36.57V	36.74V	36.91V	37.08V	37.25V

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

Electrical Characteristics BNPI	RS42J-465NBG-E1	RS42J-470NBG-E1	RS42J-475NBG-E1	RS42J-480NBG-E1	RS42J-485NBG-E1
Maximum Power (Pmax)	515W	521W	526W	532W	537W
Maximum Power Current (Imp)	16.65A	16.71A	16.76A	16.82A	16.87A
Maximum Power Voltage (Vmp)	30.94V	31.17V	31.39V	31.62V	31.85V
Short Circuit Current (Isc)	17.52A	17.57A	17.63A	17.68A	17.74A
Open Circuit Voltage (Voc)	36.57V	36.74V	36.91V	37.08V	37.25V

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	RS42J-465NBG-E1		RS42J-470NBG-E1		RS42J-475NBG-E1		RS42J-480NBG-E1		RS42J-485NBG-E1	
Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Maximum Power (Pmax)	488W	512W	494W	517W	499W	523W	504W	528W	509W	534W
Maximum Power Current (Imp)	15.78A	16.53A	15.83A	16.59A	15.89A	16.64A	15.94A	16.70A	15.99A	16.75A
Maximum Power Voltage (Vmp)	30.94V	30.94V	31.17V	31.17V	31.39V	31.39V	31.62V	31.62V	31.85V	31.85V
Short Circuit Current (Isc)	16.60A	17.39A	16.65A	17.45A	16.71A	17.50A	16.76A	17.56A	16.81A	17.61A
Open Circuit Voltage (Voc)	36.57V	36.57V	36.74V	36.74V	36.91V	36.91V	37.08V	37.08V	37.25V	37.25V

Mechanical Characteristics	
Cell Type	Mono N-Type,96(6×16) Half-Cut cells
Glass	2mm+2mm,High Transmission,Low Iron,Semi-tempered glass
Frame	Anodized Aluminum Alloy
Juction Box	IP68 Rated
Dimension	1762x1134x30mm
Output Cable	4mm2(EU),+200mm,-300mm or Customized
Weight	25.5kg
Connector	MC4 Compatible

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	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.

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

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

Note: Please read the safety and installation instructions before using this product

web: www.renesola-energy.com

Version Number: RS-T42J-02-B-EN