

BIFACIAL MODULE WITH DUAL GLASS

RS42J-455~475NBG-E1

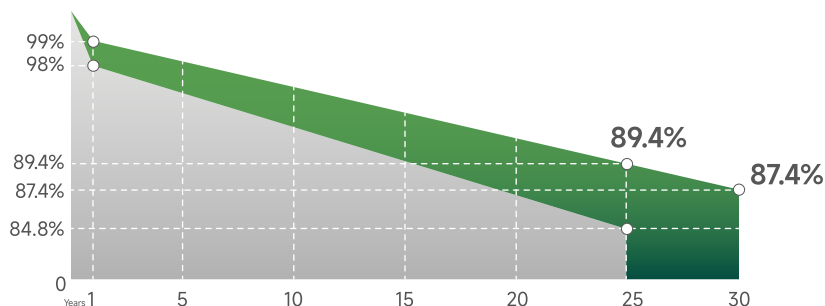
N-Type /Positive power tolerance of $\pm 3\%$ /Max module efficiency 23.77%

- 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

IEC 61215:2021, IEC 61730:2023, 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

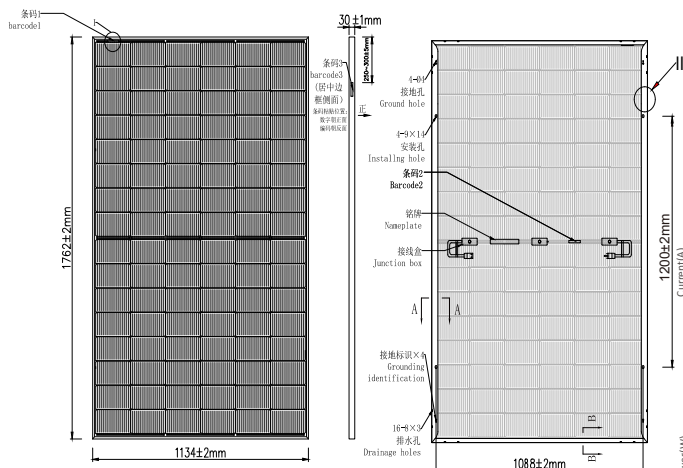
The power performance warranty is for front side only.

BLOOMBERG
TIER 1
Global
Leading Brand

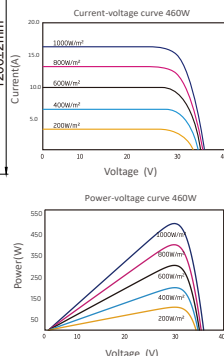


RS42J-455~475NBG-E1

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Drawing Only for Reference



PV Connectors Make:Zerun Co.,Ltd.
PV Connectors Model:Z4S-abcde

Electrical Characteristics STC	RS42J-455NBG-E1	RS42J-460NBG-E1	RS42J-465NBG-E1	RS42J-470NBG-E1	RS42J-475NBG-E1
Maximum Power (Pmax)	455W	460W	465W	470W	475W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	22.77%	23.02%	23.27%	23.52%	23.77%
Maximum Power Current (Imp)	14.93A	14.98A	15.03A	15.08A	15.13A
Maximum Power Voltage (Vmp)	30.48V	30.71V	30.94V	31.17V	31.39V
Short Circuit Current (Isc)	15.71A	15.76A	15.81A	15.86A	15.91A
Open Circuit Voltage (Voc)	36.23V	36.40V	36.57V	36.74V	36.91V

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)
Tolerance of Power/Voc/Isc : ±3%/±3%/±3%

Electrical Characteristics BNPI	RS42J-455NBG-E1	RS42J-460NBG-E1	RS42J-465NBG-E1	RS42J-470NBG-E1	RS42J-475NBG-E1
	BNPI	BNPI	BNPI	BNPI	BNPI
Maximum Power (Pmax)	504W	510W	515W	521W	526W
Maximum Power Current (Imp)	16.54A	16.60A	16.65A	16.71A	16.76A
Maximum Power Voltage (Vmp)	30.48V	30.71V	30.94V	31.17V	31.39V
Short Circuit Current (Isc)	17.41A	17.46A	17.52A	17.57A	17.63A
Short Circuit Current (BSI Isc)	19.48A	19.54A	19.60A	19.67A	19.73A
Open Circuit Voltage (Voc)	36.23V	36.40V	36.57V	36.74V	36.91V

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Ambient Temperature 25°C, AM=1.5.
Short-circuit current bifaciality coefficient:(80±5)%; Open circuit voltage bifaciality coefficient:(98±5)%; Maximum power bifaciality coefficient:(80±5)%;

Electrical Characteristics rear side power gain	RS42J-455NBG-E1	RS42J-460NBG-E1	RS42J-465NBG-E1	RS42J-470NBG-E1	RS42J-475NBG-E1
Backside Power Gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Maximum Power (Pmax)	478W 501W	483W 506W	488W 512W	494W 517W	499W 523W
Maximum Power Current (Imp)	15.68A 16.42A	15.73A 16.48A	15.78A 16.53A	15.83A 16.59A	15.89A 16.64A
Maximum Power Voltage (Vmp)	30.48V 30.48V	30.71V 30.71V	30.94V 30.94V	31.17V 31.17V	31.39V 31.39V
Short Circuit Current (Isc)	16.50A 17.28A	16.55A 17.34A	16.60A 17.39A	16.65A 17.45A	16.71A 17.50A
Open Circuit Voltage (Voc)	36.23V 36.23V	36.40V 36.40V	36.57V 36.57V	36.74V 36.74V	36.91V 36.91V

Module Temperature rating [T78] max of 70°C

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
Junction Box	IP68 Rated
Dimension	1762x1134x30mm
Output Cable	4mm2(EU),+200mm,-300mm or Customized
Weight	25.5kg
Installation Hole Location	See Drawing Above

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

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	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	35A

