

BIFACIAL MODULE WITH DUAL GLASS

RS41H-445~465NBG-E1

N-Type /Positive power tolerance of 0~+3%/Max module efficiency 22.78%.

- 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

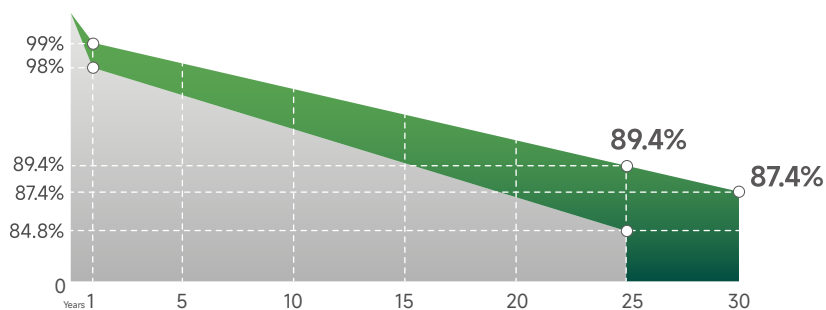
Complete System
and IEC Product Certification

IEC61215, IEC61730, ISO9001:

2015: Quality Management System ISO14001:

2015: Environment Management System

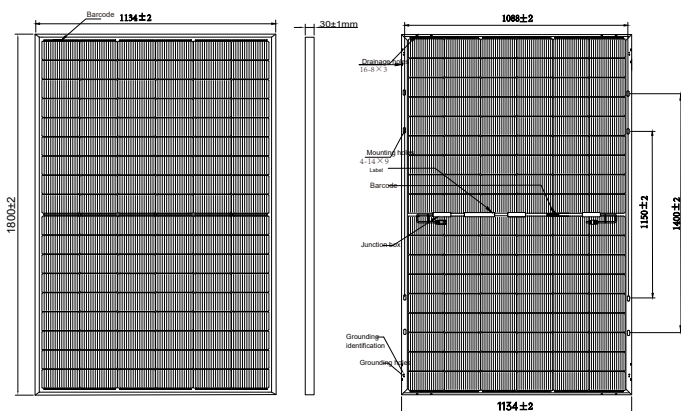
ISO45001:2018: Occupational Health
and Safety Management System



30-Year excess linear power output warranty

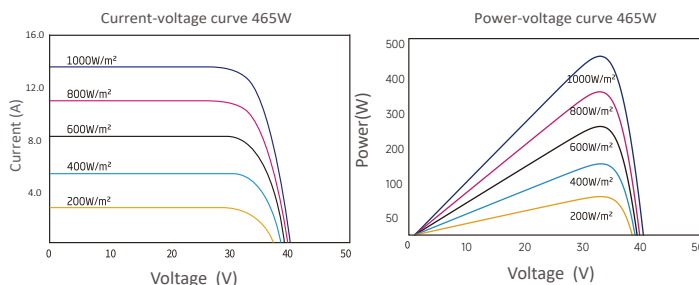
BLOOMBERG
TIER 1
Global
Leading Brand





RS41H-445~465NBG-E1

BIFACIAL MODULE WITH DUAL GLASS



Electrical Characteristics STC	RS41H-445NBG-E1	RS41H-450NBG-E1	RS41H-455NBG-E1	RS41H-460NBG-E1	RS41H-465NBG-E1
Maximum Power (Pmax)	445W	450W	455W	460W	465W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	21.80%	22.05%	22.29%	22.54%	22.78%
Maximum Power Current (Imp)	13.55A	13.63A	13.70A	13.78A	13.85A
Maximum Power Voltage (Vmp)	32.87V	33.08V	33.28V	33.49V	33.70V
Short Circuit Current (Isc)	14.18A	14.25A	14.32A	14.39A	14.46A
Open Circuit Voltage (Voc)	39.71V	39.91V	40.11V	40.31V	40.51V

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

Electrical Characteristics BNPI	RS41H-445NBG-E1	RS41H-450NBG-E1	RS41H-455NBG-E1	RS41H-460NBG-E1	RS41H-465NBG-E1
Maximum Power (Pmax)	493W	499W	504W	510W	515W
Maximum Power Current (Imp)	15.01A	15.10A	15.18A	15.27A	15.35A
Maximum Power Voltage (Vmp)	32.87V	33.08V	33.28V	33.49V	33.70V
Short Circuit Current (Isc)	15.71A	15.79A	15.87A	15.94A	16.02A
Open Circuit Voltage (Voc)	39.71V	39.91V	40.11V	40.31V	40.51V

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	RS41H-445NBG-E1	RS41H-450NBG-E1	RS41H-455NBG-E1	RS41H-460NBG-E1	RS41H-465NBG-E1
Backside Power Gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Maximum Power (Pmax)	467W 490W	473W 495W	478W 501W	483W 506W	488W 512W
Maximum Power Current (Imp)	14.22A 14.91A	14.28A 14.99A	14.36A 15.07A	14.42A 15.16A	14.49A 15.24A
Maximum Power Voltage (Vmp)	32.87V 32.87V	33.08V 33.08V	33.28V 33.28V	33.49V 33.49V	33.70V 33.70V
Short Circuit Current (Isc)	14.89A 15.60A	14.96A 15.68A	15.04A 15.75A	15.11A 15.83A	15.18A 15.91A
Open Circuit Voltage (Voc)	39.71V 39.71V	39.91V 39.91V	40.11V 40.11V	40.31V 40.31V	40.51V 40.51V

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
Juction Box	IP68 Rated
Dimension	1800x1134x30mm
Output Cable	4mm2(EU),+200mm,-300mm or Customized
Weight	25.4kg
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	
Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A

