

BIFACIAL MODULE WITH DUAL GLASS

RS41H-445~465NBG-E1



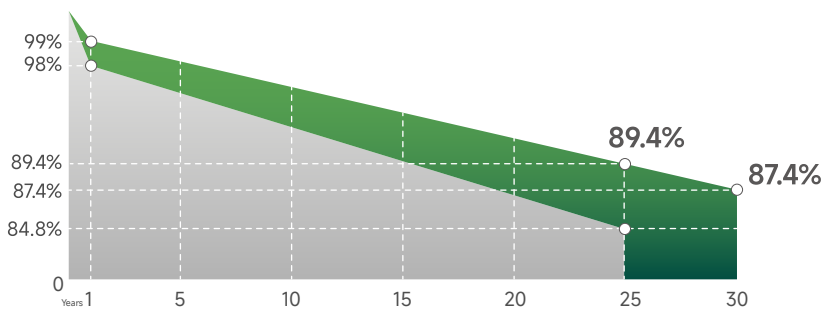
N-Type /Positive power tolerance of 0~+3%/Max module efficiency 22.78%.

- 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
- Ultra-hydrophilic self-cleaning coating techniques
- Enhanced Mechanical Load
 - Mechanical performance up to 5400pa positive load and 2400pa negative load



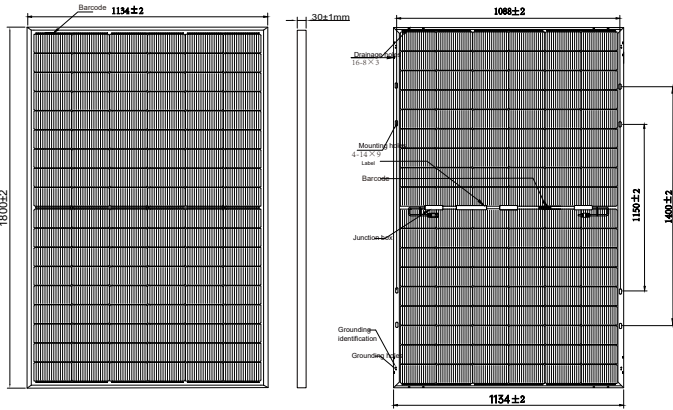
Complete System and IEC Product Certification

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

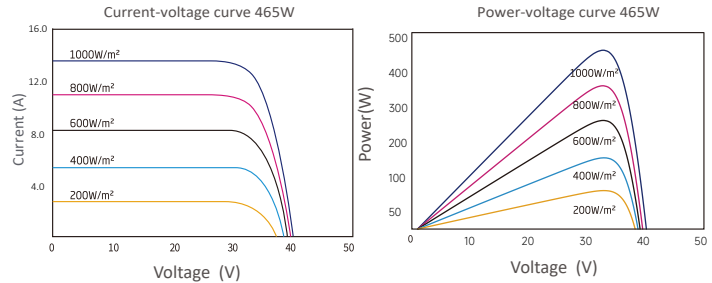




Drawing Only for Reference

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 NOCT	RS41H-445NBG-E1	RS41H-450NBG-E1	RS41H-455NBG-E1	RS41H-460NBG-E1	RS41H-465NBG-E1
Maximum Power (Pmax)	339W	343W	347W	351W	354W
Maximum Power Current (Imp)	11.09A	11.15A	11.20A	11.25A	11.31A
Maximum Power Voltage (Vmp)	30.57V	30.76V	30.95V	31.15V	31.34V
Short Circuit Current (Isc)	11.59A	11.66A	11.73A	11.80A	11.87A
Open Circuit Voltage (Voc)	37.33V	37.52V	37.70V	37.89V	38.08V

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

Electrical Characteristics with 10% rear side power gain	RS41H-445NBG-E1	RS41H-450NBG-E1	RS41H-455NBG-E1	RS41H-460NBG-E1	RS41H-465NBG-E1
Maximum Power (Pmax)	490W	495W	501W	506W	512W
Maximum Power Current (Imp)	14.91A	14.99A	15.07A	15.16A	15.24A
Maximum Power Voltage (Vmp)	32.87V	33.08V	33.28V	33.49V	33.70V
Short Circuit Current (Isc)	15.60A	15.68A	15.75A	15.83A	15.91A
Open Circuit Voltage (Voc)	39.71V	39.91V	40.11V	40.31V	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
Junction Box	IP68 Rated
Dimension	1800x1134x30mm
Output Cable	4mm ² (EU),300mm,length can be customized
Weight	25.4kg
Connector	MC4 Compatible

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.

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

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

