

BIFACIAL MODULE WITH DUAL GLASS

RS4-480~500NBG-E1



N-Type /Positive power tolerance of 0~+3%/Max module efficiency 23.17%

- 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

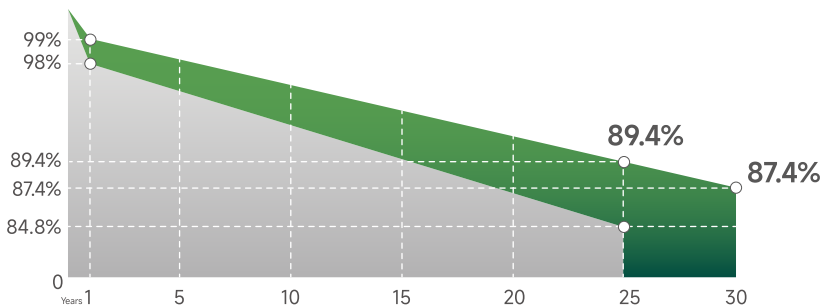


Complete System and IEC Product Certification

IEC 61215(2016), IEC 61730(2016) ISO9001: 2015: Quality Management System ISO14001: 2015: Environment Management System ISO45001:2018: Occupational Health and Safety Management System

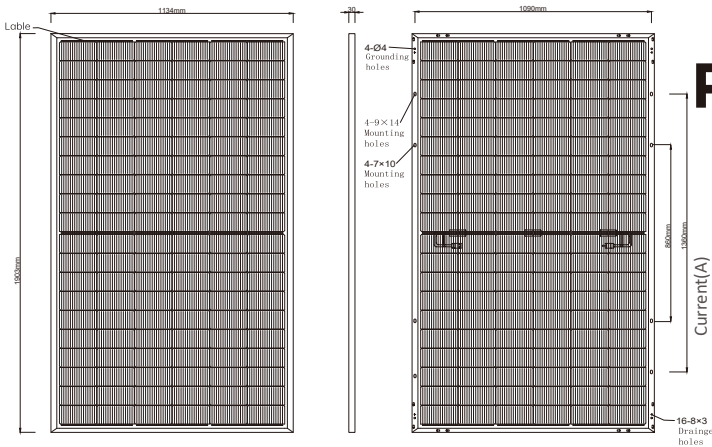
15 -Year ◀◀
Material & Workmanship

30 -Year ◀◀
Linear Power Output



30-Year Excess Linear Power Output Warranty

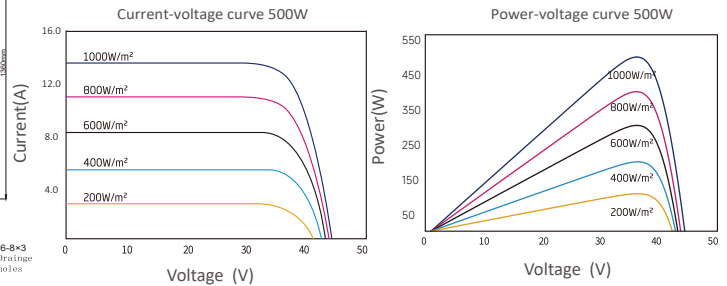




Drawing Only for Reference

RS4-480~500NBG-E1

BIFACIAL MODULE WITH DUAL GLASS



Electrical Characteristics STC	RS4-480NBG-E1	RS4-485NBG-E1	RS4-490NBG-E1	RS4-495NBG-E1	RS4-500NBG-E1
Maximum Power (Pmax)	480W	485W	490W	495W	500W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	22.24%	22.47%	22.71%	22.94%	23.17%
Maximum Power Current (Imp)	13.17A	13.24A	13.31A	13.38A	13.45A
Maximum Power Voltage (Vmp)	36.45V	36.63V	36.81V	37.00V	37.17V
Short Circuit Current (Isc)	13.69A	13.77A	13.85A	13.93A	14.01A
Open Circuit Voltage (Voc)	43.38V	44.58V	44.78V	44.98V	45.18V

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

Electrical Characteristics NOCT	RS4-480NBG-E1	RS4-485NBG-E1	RS4-490NBG-E1	RS4-495NBG-E1	RS4-500NBG-E1
Maximum Power (Pmax)	361W	364W	368W	372W	376W
Maximum Power Current (Imp)	10.64A	10.69A	10.75A	10.81A	10.86A
Maximum Power Voltage (Vmp)	33.90V	34.07V	34.24V	34.41V	34.57V
Short Circuit Current (Isc)	11.17A	11.23A	11.30A	11.36A	11.43A
Open Circuit Voltage (Voc)	41.72V	41.91V	42.10V	42.28V	42.47V

NOCT, Irradiance of 800W/m², AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

Electrical Characteristics with 10% rear side power gain	RS4-480NBG-E1	RS4-485NBG-E1	RS4-490NBG-E1	RS4-495NBG-E1	RS4-500NBG-E1
Maximum Power (Pmax)	528W	534W	539W	545W	550W
Maximum Power Current (Imp)	14.49A	14.56A	14.64A	14.72A	14.80A
Maximum Power Voltage (Vmp)	36.45V	36.63V	36.81V	37.00V	36.81V
Short Circuit Current (Isc)	15.06A	15.15A	15.24A	15.32A	15.41A
Open Circuit Voltage (Voc)	44.38V	44.58V	44.78V	44.98V	45.18V

Mechanical Characteristics	
Cell Type	Mono N-Type, 120(6x20) Half-Cut cells
Glass	2mm+2mm, High Transmission, Low Iron, Semi-tempered glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Dimension	1903x1134x30mm
Output Cable	4mm ² (EU), 300mm, length can be customized
Weight	28kg
Connector	MC4 Compatible

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

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

