

BIFACIAL MODULE WITH DUAL GLASS

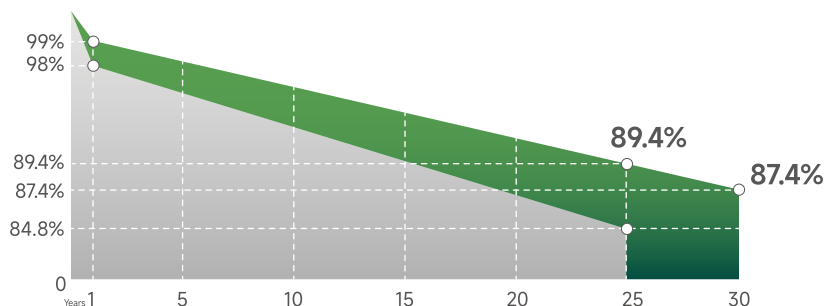
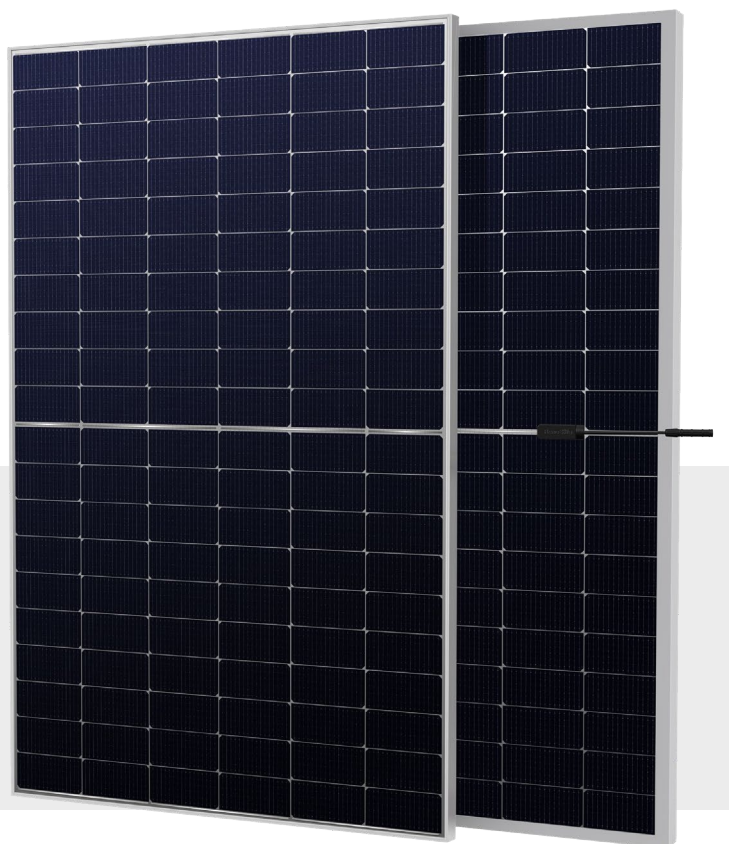
RS4-480~500NBG-E1

N-Type /Positive power tolerance of $\pm 3\%$ /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
- Enhanced Mechanical Load
 - Mechanical performance up to 5400pa positive load and 2400pa negative load

Complete System
and IEC Product Certification

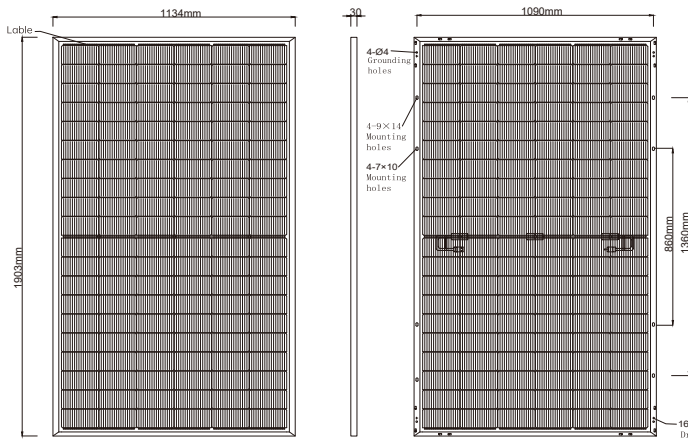
IEC 61215:2021, IEC 61730:2023, ISO 9001
2015: Quality Management System ISO 14001:
2015: Environment Management System
ISO 45001:2018: Occupational Health
and Safety Management System



30-Year Excess Linear Power Output Warranty
The power performance warranty is for front side only.

BLOOMBERG
TIER 1
Global
Leading Brand

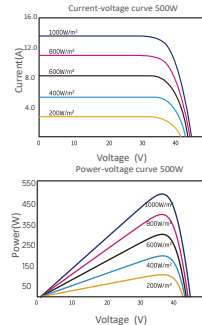




Drawing Only for Reference

RS4-480~500NBG-E1

BIFACIAL MODULE WITH DUAL GLASS



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

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)	44.38V	44.58V	44.78V	44.98V	45.18V

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/m², Cell Temperature25°C)
Tolerance of Power/Voc/ISC : ±3%/±3%/±3%

Electrical Characteristics BNPI/BSI	RS4-480NBG-E1	RS4-485NBG-E1	RS4-490NBG-E1	RS4-495NBG-E1	RS4-500NBG-E1
Backside Power Gain	BNPI	BNPI	BNPI	BNPI	BNPI
Maximum Power (Pmax)	532W	537W	543W	548W	554W
Maximum Power Current (Imp)	14.59A	14.67A	14.75A	14.83A	14.90A
Maximum Power Voltage (Vmp)	36.45V	36.63V	36.81V	37.00V	37.17V
Short Circuit Current (Isc)	15.17A	15.26A	15.35A	15.43A	15.52A
Short Circuit Current (BSIsc)	16.98A	17.07A	17.17A	17.27A	17.37A
Open Circuit Voltage (Voc)	44.38V	44.58V	44.78V	44.98V	45.18V

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Ambient Temperature 25°C, AM=1.5, Power Bifaciality:80±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	RS4-480NBG-E1	RS4-485NBG-E1	RS4-490NBG-E1	RS4-495NBG-E1	RS4-500NBG-E1
Backside Power Gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Maximum Power (Pmax)	504W 528W	509W 534W	515W 539W	520W 545W	525W 550W
Maximum Power Current (Imp)	13.83A 14.49A	13.90A 14.56A	13.98A 14.64A	14.05A 14.72A	14.12A 14.80A
Maximum Power Voltage (Vmp)	36.45V 36.45V	36.63V 36.63V	36.81V 36.81V	37.00V 37.00V	37.17V 37.17V
Short Circuit Current (Isc)	14.37A 15.06A	14.46A 15.15A	14.54A 15.24A	14.63A 15.32A	14.71A 15.41A
Open Circuit Voltage (Voc)	44.38V 44.38V	44.58V 44.58V	44.78V 44.78V	44.98V 44.98V	45.18V 45.18V

Module Temperature rating [T98] max of 70°C

Mechanical Characteristics	
Cell Type	Mono N-Type,120(6×20) Half-Cut cells
Glass	2mm+2mm,High Transmission,Low Iron,Semi-tempered glass
Frame	Anodized Aluminum Alloy
Juction Box	IP68 Rated
Dimension	1903x1134x30mm
Output Cable	4mm2(EU),+200mm,-300mm or Customized
Weight	28kg
Installation Hole Location	See Drawing Above

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	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

