

BIFACIAL MODULE WITH DUAL GLASS

RS41J-490~515NBG-E1

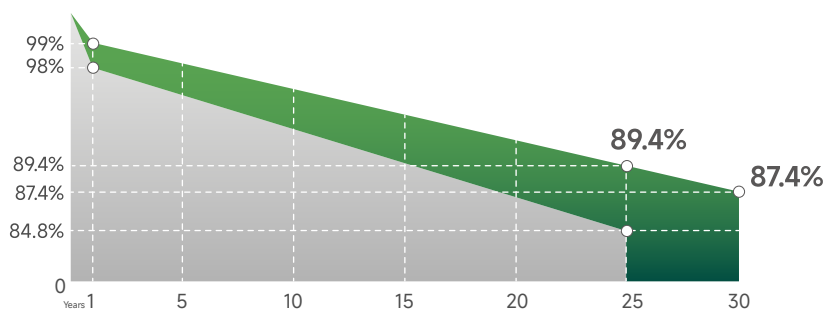
N-Type /Positive power tolerance of $\pm 3\%$ /Max module efficiency 23.16%

- 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

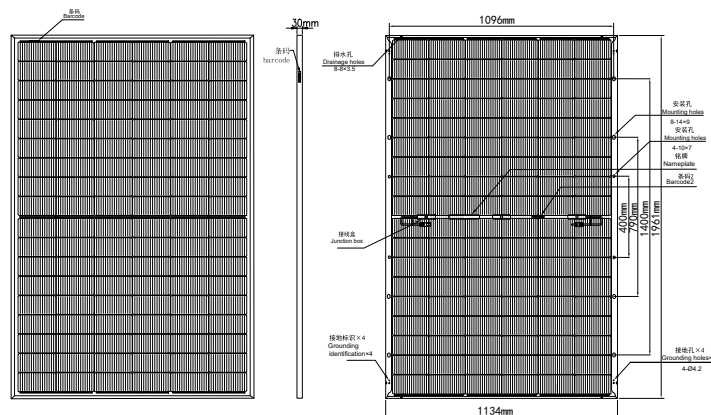
IEC 61215:2021, IEC 61730:2023, ISO9001
2015: Quality Management System ISO14001:
2015: Environment Management System
ISO45001:2018: Occupational Health
and Safety Management System



30-Year excess linear power output warranty
The power performance warranty is for front side only.

BLOOMBERG
TIER 1
Global
Leading Brand

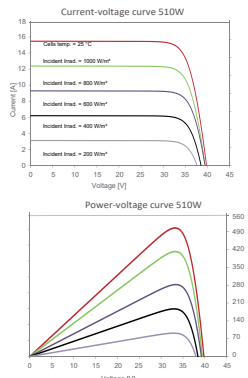




Drawing Only for Reference

RS41J-490~515NBG-E1

BIFACIAL MODULE WITH DUAL GLASS



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

Electrical Characteristics STC	RS41J-490NBG-E1	RS41J-495NBG-E1	RS41J-500NBG-E1	RS41J-505NBG-E1	RS41J-510NBG-E1	RS41J-515NBG-E1
Maximum Power (Pmax)	490W	495W	500W	505W	510W	515W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	22.03%	22.26%	22.48%	22.71%	22.93%	23.16%
Maximum Power Current (Imp)	14.86A	14.94A	14.98A	15.02A	15.06A	15.10A
Maximum Power Voltage (Vmp)	32.97V	33.13V	33.38V	33.62V	33.86V	34.11V
Short Circuit Current (Isc)	15.80A	15.83A	15.86A	15.89A	15.91A	15.94A
Open Circuit Voltage (Voc)	39.60V	39.85V	40.09V	40.34V	40.58V	40.83V

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	RS41J-490NBG-E1	RS41J-495NBG-E1	RS41J-500NBG-E1	RS41J-505NBG-E1	RS41J-510NBG-E1	RS41J-515NBG-E1
Maximum Power (Pmax)	543W	548W	554W	560W	565W	571W
Maximum Power Current (Imp)	16.46A	16.55A	16.60A	16.64A	16.69A	16.73A
Maximum Power Voltage (Vmp)	32.97V	33.13V	33.38V	33.62V	33.86V	34.11V
Short Circuit Current (Isc)	17.51A	17.54A	17.57A	17.61A	17.63A	17.66A
Short Circuit Current (BSI Isc)	19.59A	19.63A	19.67A	19.70A	19.73A	19.77A
Open Circuit Voltage (Voc)	39.60V	39.85V	40.09V	40.34V	40.58V	40.83V

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	RS41J-490NBG-E1	RS41J-495NBG-E1	RS41J-500NBG-E1	RS41J-505NBG-E1	RS41J-510NBG-E1	RS41J-515NBG-E1
Backside Power Gain	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Maximum Power (Pmax)	515W 539W	520W 545W	525W 550W	530W 556W	536W 561W	541W 567W
Maximum Power Current (Imp)	15.60A 16.35A	15.69A 16.43A	15.73A 16.48A	15.77A 16.52A	15.81A 16.56A	15.86A 16.61A
Maximum Power Voltage (Vmp)	32.97V 32.97V	33.13V 33.13V	33.38V 33.38V	33.62V 33.62V	33.86V 33.86V	34.11V 34.11V
Short Circuit Current (Isc)	16.59A 17.38A	16.62A 17.41A	16.65A 17.45A	16.68A 17.48A	16.71A 17.50A	16.74A 17.53A
Open Circuit Voltage (Voc)	39.60V 39.60V	39.85V 39.85V	40.09V 40.09V	40.34V 40.34V	40.58V 40.58V	40.83V 40.83V

Module Temperature rating [T98] max of 70°C

Mechanical Characteristics	
Cell Type	MonoN-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	1961×1134×30mm
Output Cable	4mm2(EU),+200mm,-300mm or Customized
Weight	28.1kg
Installation Hole Location	See Drawing Above

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

Characteristics	
Temperature Coefficient of Voc	-0.26%/°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	35A

