

BIFACIAL MODULE WITH DUAL GLASS

RS41-430~450NXG-E3

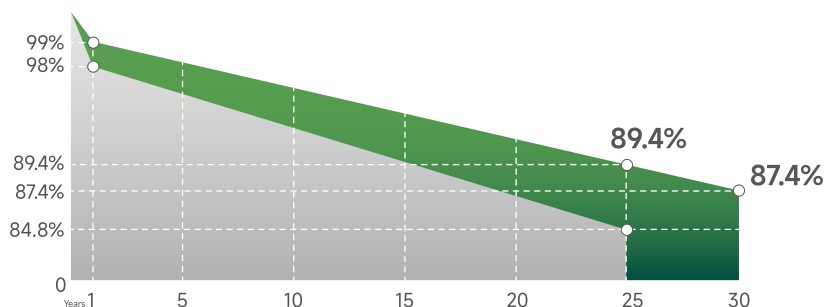
N-Type /Positive power tolerance of $\pm 3\%$ /Max module efficiency 23.04%

- 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

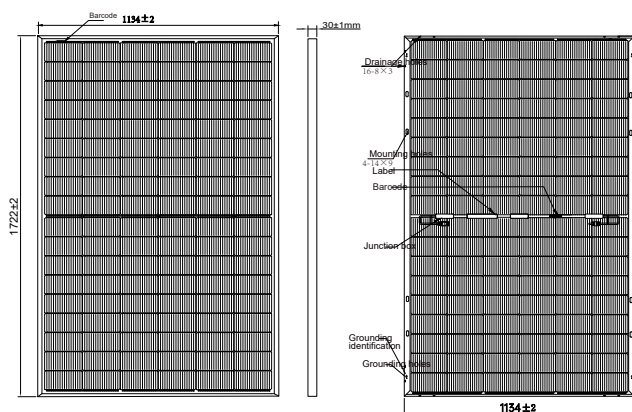
The power performance warranty is for front side only.

BLOOMBERG
TIER 1
 Global
 Leading Brand

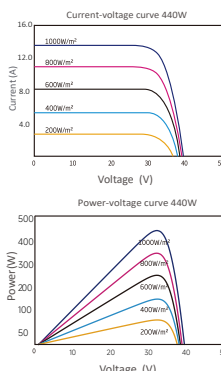


RS41-430~450NXG-E3

BIFACIAL MODULE WITH DUAL GLASS



Drawing Only for Reference



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

Electrical Characteristics STC	RS41-430NXG-E3	RS41-435NXG-E3	RS41-440NXG-E3	RS41-445NXG-E3	RS41-450NXG-E3
Maximum Power (Pmax)	430W	435W	440W	445W	450W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	22.02%	22.28%	22.53%	22.79%	23.04%
Maximum Power Current (Imp)	13.17A	13.24A	13.31A	13.38A	13.45A
Maximum Power Voltage (Vmp)	32.65V	32.85V	33.06V	33.26V	33.46V
Short Circuit Current (Isc)	13.69A	13.77A	13.85A	13.93A	14.01A
Open Circuit Voltage (Voc)	39.51V	39.74V	39.96V	40.18V	40.40V

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/BSI	RS41-430NXG-E3	RS41-435NXG-E3	RS41-440NXG-E3	RS41-445NXG-E3	RS41-450NXG-E3
	BNPI	BNPI	BNPI	BNPI	BNPI
Maximum Power (Pmax)	476W	482W	488W	493W	499W
Maximum Power Current (Imp)	14.59A	14.67A	14.75A	14.83A	14.90A
Maximum Power Voltage (Vmp)	32.65V	32.85V	33.06V	33.26V	33.46V
Short Circuit Current (Isc)	15.17A	15.26A	15.35A	15.43A	15.52A
Short Circuit Current (BSI Isc)	16.98A	17.07A	17.17A	17.27A	17.37A
Open Circuit Voltage (Voc)	39.51V	39.74V	39.96V	40.18V	40.40V

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	RS41-430NXG-E3	RS41-435NXG-E3	RS41-440NXG-E3	RS41-445NXG-E3	RS41-450NXG-E3
	5% 10%	5% 10%	5% 10%	5% 10%	5% 10%
Backside Power Gain					
Maximum Power (Pmax)	452W 473W	457W 479W	462W 484W	467W 490W	473W 495W
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)	32.65V 32.65V	32.85V 32.85V	33.06V 33.06V	33.26V 33.26V	33.46V 33.46V
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)	39.51V 39.51V	39.74V 39.74V	39.96V 39.96V	40.18V 40.18V	40.40V 40.40V

Module Temperature rating [T98] max of 70°C

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	1722x1134x30mm
Output Cable	4mm²(EU), +200mm, -300mm or Customized
Weight	23.5kg
Installation Hole Location	See Drawing Above

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	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

