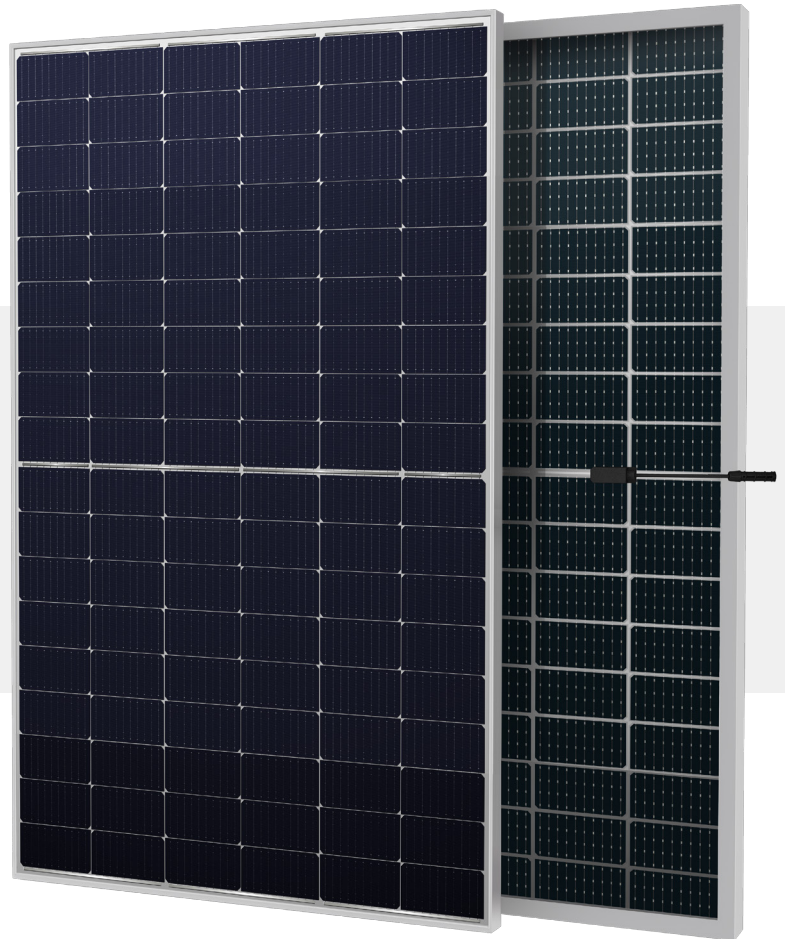


## BIFACIAL MODULE WITH DUAL GLASS

# RS41-410~430NBG-E2

N-Type /Positive power tolerance of 0~+3%/Max module efficiency 21.94%

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
  - Gallium-doped Wafer · Non destructive cutting · MBB half-cut
- Excellent power generation performance
  - Excellent IAM and Weak light response · Low temperature ratings
  - 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

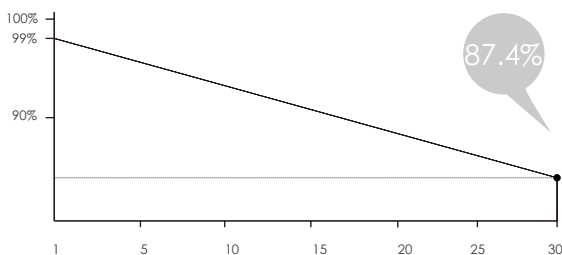


Complete System  
and IEC Product Certification

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

**12-year** ◀◀  
Material &  
Workmanship

**30-year** ◀◀  
Linear Power  
Output

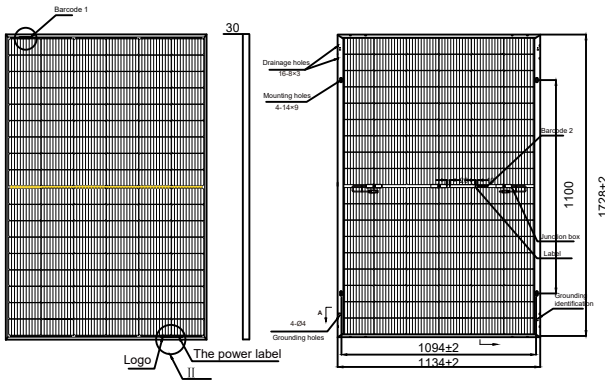


30-Year excess linear power output warranty

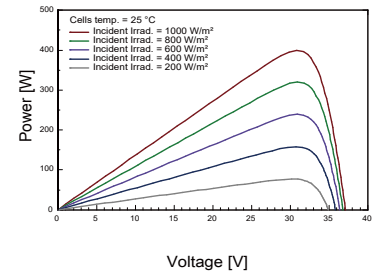
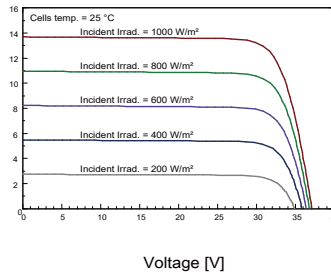


## RS41-410~430NBG-E2

BIFACIAL MODULE WITH DUAL GLASS



Drawing Only for Reference



Voltage [V]

Voltage [V]

Electrical Characteristics STC	RS41-410NBG-E2	RS41-415NBG-E2	RS41-420NBG-E2	RS41-425NBG-E2	RS41-430NBG-E2
Maximum Power (Pmax)	410W	415W	420W	425W	430W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	20.92%	21.18%	21.43%	21.69%	21.94%
Maximum Power Current (Imp)	13.02A	13.10A	13.17A	13.24A	13.32A
Maximum Power Voltage (Vmp)	31.5V	31.7V	31.9V	32.1V	32.3V
Short Circuit Current (Isc)	13.82A	13.91A	13.98A	14.05A	14.12A
Open Circuit Voltage (Voc)	37.5V	37.7V	37.9V	38.1V	38.3V

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/m², Cell Temperature25°C)

Electrical Characteristics NOCT	RS41-410NBG-E2	RS41-415NBG-E2	RS41-420NBG-E2	RS41-425NBG-E2	RS41-430NBG-E2
Maximum Power (Pmax)	311W	315W	318W	322W	326W
Maximum Power Current (Imp)	10.50A	10.56A	10.62A	10.67A	10.74A
Maximum Power Voltage (Vmp)	29.6V	29.8V	30.0V	30.2V	30.3V
Short Circuit Current (Isc)	11.14A	11.22A	11.27A	11.33A	11.38A
Open Circuit Voltage (Voc)	35.8V	36.0V	36.2V	36.4V	36.6V

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

Electrical Characteristics with 21% rear side power gain	RS41-410NBG-E2	RS41-415NBG-E2	RS41-420NBG-E2	RS41-425NBG-E2	RS41-430NBG-E2
Maximum Power (Pmax)	496.1W	502.15W	508.2W	514.25W	520.3W
Maximum Power Current (Imp)	15.75A	15.85A	15.77A	15.94A	16.02A
Maximum Power Voltage (Vmp)	31.5V	31.7V	31.9V	32.1V	32.3V
Short Circuit Current (Isc)	16.72A	16.83A	16.92A	17.00A	17.19A
Open Circuit Voltage (Voc)	37.5V	37.7V	37.9V	38.1V	38.3V

### Mechanical Characteristics

Cell Type	MonoN-Type,182x182(±1)mm,108(6x18)Half-Cut cells
Glass	2mm+2mm,High Transmission,Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated, With Bypass Diodes
Dimension	1728×1134×30mm
Output Cable	4 mm2 (EU),300 mm,length can be customized
Weight	24.5kg
Installation Hole Location	See Drawing Above

### Packing Information

Container	40' HQ
Pallets per Container	26
Pieces per Container	936

### Characteristics

Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	+0.046%/°C
Temperature Coefficient of Pmax	-0.310%/°C
Nominal Operating Cell Temperature (NOCT)	45°C±2°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	25A

