

BIFACIAL MODULE WITH DUAL GLASS

RS3-450~470HBG-E3

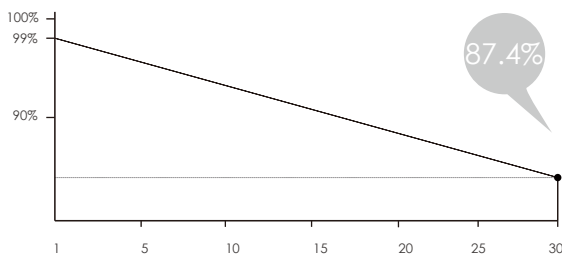
HJT-Type /Positive power tolerance of 0~+3%/Max module efficiency 21.62%

- Advanced 166HJT cell leads to higher efficiency;
- N-type solar cell has no LID naturally, can increase powergeneration
 - Excellent cell color control ·Non destructive cutting ·Thinner wafer
- Excellent power generation performance
 - Excellent IAM and low irradiation performance ·Lower temperature coefficient
 - 0.40% linear Power decline
- Flexible for system deployment
 - Perfect size and low weight ·Diverse installation solutions. ·Leads to avoid fire
- Ultra-hydrophilic self-cleaning coating techniques

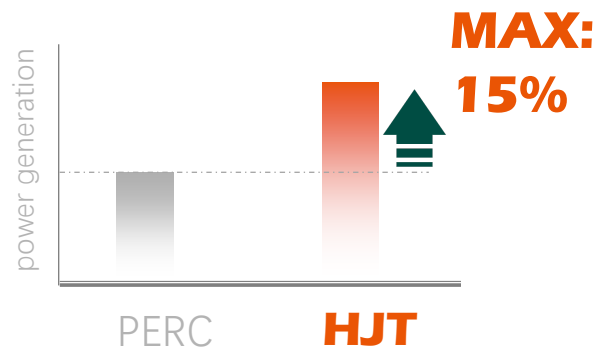


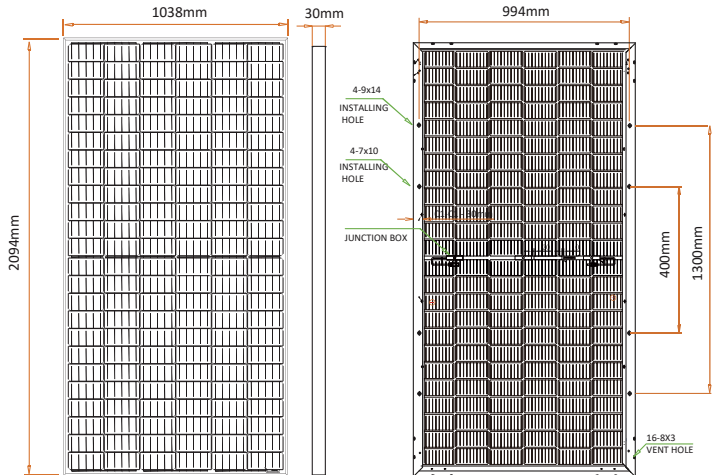
Complete System
and IEC Product Certification

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



30-Year excess linear power output warranty

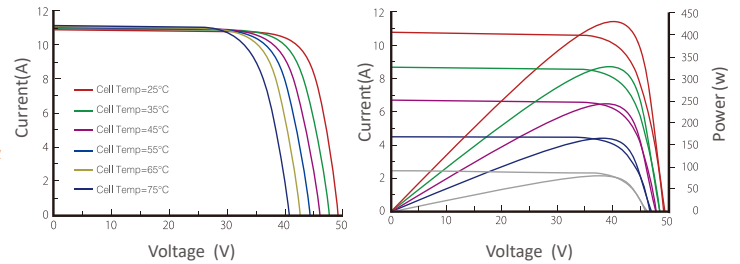




Drawing Only for Reference

RS3-450~470HBG-E3

BIFACIAL MODULE WITH DUAL GLASS



Electrical Characteristics STC	RS3-450HBG-E3	RS3-455HBG-E3	RS3-460HBG-E3	RS3-465HBG-E3	RS3-470HBG-E3
Maximum Power (Pmax)	450W	455W	460W	465W	470W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	20.70%	20.93%	21.16%	21.39%	21.62%
Maximum Power Current (Imp)	10.01A	10.08A	10.16A	10.23A	10.30A
Maximum Power Voltage (Vmp)	44.98V	45.14V	45.31V	45.48V	45.65V
Short Circuit Current (Isc)	10.71A	10.76A	10.81A	10.86A	10.91A
Open Circuit Voltage (Voc)	53.14V	53.21V	53.35V	53.50V	53.57V

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

Electrical Characteristics NOCT	RS3-450HBG-E3	RS3-455HBG-E3	RS3-460HBG-E3	RS3-465HBG-E3	RS3-470HBG-E3
Maximum Power (Pmax)	359.3W	363.3W	367.3W	371.3W	375.3W
Maximum Power Current (Imp)	8.13A	8.19A	8.25A	8.30A	8.36A
Maximum Power Voltage (Vmp)	44.22V	44.37V	44.54V	44.71V	44.87V
Short Circuit Current (Isc)	8.39A	8.47A	8.54A	8.61A	8.69A
Open Circuit Voltage (Voc)	52.61V	52.68V	52.82V	52.97V	53.03V

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

Mechanical Characteristics

Cell Type	MonoHJT-Type,166x166(±1)mm,144(6x24)Half-Cut cells
Glass	2mm, Double AR Coated Heat Strengthened Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated, With Bypass Diodes
Dimension	2094x1038x30mm
Output Cable	4 mm ² (EU),300 mm,length can be customized
Weight	26.3kg
Installation Hole Location	See Drawing Above

Packing Information

Container	40' HQ
Pallets per Container	22
Pieces per Container	792

Characteristics

Temperature Coefficient of Voc	-0.21%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pmax	-0.26%/°C
Nominal Operating Cell Temperature (NOCT)	43°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	20A



Note: Please read the safety and installation instructions before using this product
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 web: www.renesola-energy.com
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