



HETEROJUNCTION INTRINSIC THIN-LAYER HJT BIFACIAL MODULE



RSM120-6-335BHDG-355BHDG

120 CELL HJT Bifacial Module	335-355Wp Power Output Range
1500VDC Maximum System Voltage	21.0% Maximum Efficiency

KEY SALIENT FEATURES

- Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing
- Bifacial technology enables additional energy harvesting from rear side (up to 30%)
- Industry leading lowest thermal co-efficient of power
- Industry leading 12 years product warranty
- Excellent low irradiance performance
- Excellent PID resistance
- Positive tight power tolerance
- Dual stage 100% EL Inspection warranting defect-free product
- Module Imp binning radically reduces string mismatch losses
- Excellent wind load 2400Pa & snow load 5400Pa under certain installation method
- Comprehensive product and system certification
 - ◆ IEC61215:2016; IEC61730-1/-2:2016;
 - ◆ ISO 9001:2015 Quality Management System
 - ◆ ISO 14001:2015 Environmental Management System
 - ◆ ISO 45001:2018 Occupational Health and Safety Management System



* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

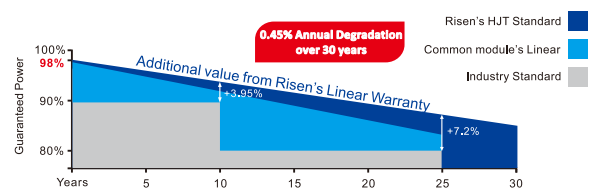
RISEN ENERGY CO., LTD.

Risen Energy is a leading, global tier 1 manufacturer of high-performance solar photovoltaic products and provider of total business solutions for residential, commercial and utility-scale power generation. The company, founded in 1986, and publicly listed in 2010, compels value generation for its chosen global customers. Techno-commercial innovation, underpinned by consummate quality and support, encircle Risen Energy's total Solar PV business solutions which are among the most powerful and cost-effective in the industry. With local market presence and strong financial bankability status, we are committed, and able, to building strategic, mutually beneficial collaborations with our partners, as together we capitalise on the rising value of green energy.

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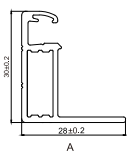
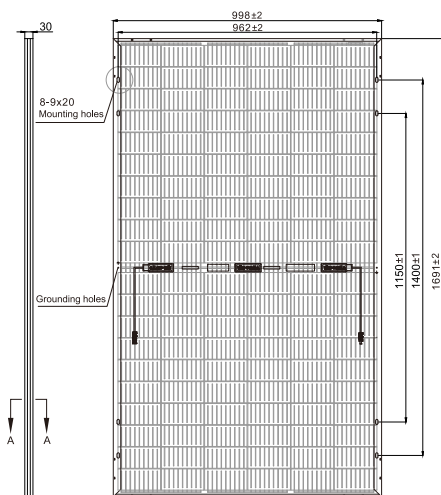


LINEAR PERFORMANCE WARRANTY 12 year Product Warranty / 30 year Linear Power Warranty



* Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM120-6-335BHGD	RSM120-6-340BHGD	RSM120-6-345BHGD	RSM120-6-350BHGD	RSM120-6-355BHGD
Rated Power in Watts-Pmax(Wp)	335	340	345	350	355
Open Circuit Voltage-Voc(V)	43.90	44.20	44.50	44.80	45.10
Short Circuit Current-Isc(A)	9.77	9.82	9.88	9.93	9.99
Maximum Power Voltage-Vmpp(V)	36.90	37.20	37.50	37.80	38.10
Maximum Power Current-Impp(A)	9.09	9.15	9.22	9.27	9.33
Module Efficiency (%) *	19.9	20.1	20.4	20.7	21.0

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
Bifacial factor: ≥80% * Module Efficiency (%): Round-off to the nearest number

Electrical characteristics with different rear side power gain (reference to 345Wp front)

Bifacial Gain *	Pmax/W	Voc/V	Isc/A	Vmpp/V	Impp/A
5%	362	44.50	10.37	37.50	9.68
10%	380	44.50	10.87	37.50	10.14
15%	397	44.50	11.36	37.50	10.60
20%	414	44.50	11.86	37.50	11.06
25%	431	44.50	12.35	37.50	11.53
30%	449	44.50	12.84	37.50	11.99

*Bifacial Gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA (NMOT)

Model Number	RSM120-6-335BHGD	RSM120-6-340BHGD	RSM120-6-345BHGD	RSM120-6-350BHGD	RSM120-6-355BHGD
Maximum Power-Pmax (Wp)	250.5	254.3	258.0	261.7	265.5
Open Circuit Voltage-Voc (V)	40.39	40.66	40.94	41.22	41.49
Short Circuit Current-Isc (A)	8.01	8.05	8.10	8.14	8.19
Maximum Power Voltage-Vmpp (V)	33.80	34.08	34.35	34.62	34.90
Maximum Power Current-Impp (A)	7.42	7.47	7.52	7.56	7.61

NMOT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar cells	HJT cell
Cell configuration	120 cells (6×10+6×10)
Module dimensions	1691×998×30mm
Weight	21.5kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)350mm, Negative(-)350mm (Connector Included)
Connector	Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	43°C±2°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	0.047%/°C
Temperature Coefficient of Pmax	-0.24%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	910	420
Number of modules per pallet	35	35
Number of pallets per container	26	12
Packaging box dimensions (LxWxH) in mm	1755×1130×1135	1755×1130×1135
Box gross weight[kg]	805	805

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless as otherwise specifically committed by manufacturer in contract document.

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