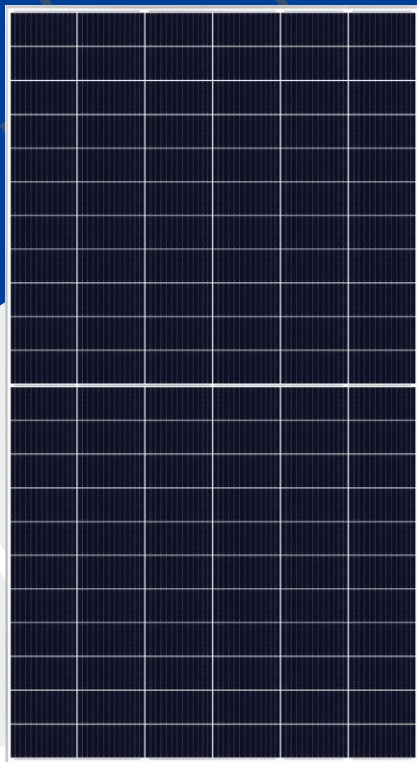


ULTRA-LOW CARBON HETEROJUNCTION TECHNOLOGY HJT BIFACIAL MODULE

Draft 030



RSM132-8-680BHDG-700BHDG

132 CELL HJT Bifacial Module	680-700Wp Power Output Range
1500VDC Maximum System Voltage	22.5% Maximum Efficiency

KEY SALIENT FEATURES

- Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing
- N-type solar cell without LID caused by B-O
- No PID
- Better Temperature Coefficient
- Bifacial technology enables additional energy harvesting from rear side
- Positive power tolerance of 0~+3%
- 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.

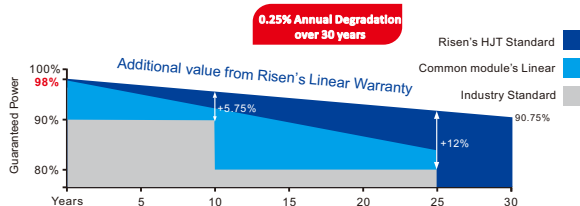
RISEN ENERGY CO., LTD.

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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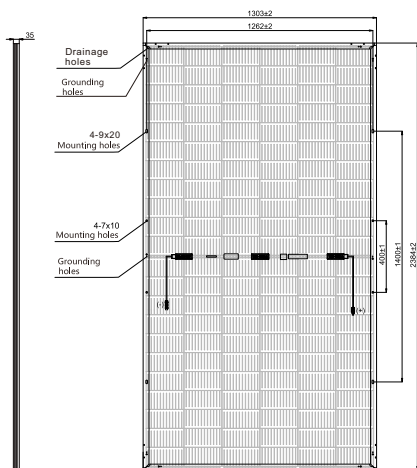


LINEAR PERFORMANCE WARRANTY 12 year Product Warranty / 30 year Linear Power Warranty



* 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	RSM132-8-680BHDG	RSM132-8-685BHDG	RSM132-8-690BHDG	RSM132-8-695BHDG	RSM132-8-700BHDG
Rated Power in Watts-Pmax(Wp)	680	685	690	695	700
Open Circuit Voltage-Voc(V)	49.47	49.58	49.69	49.80	49.91
Short Circuit Current-Isc(A)	17.26	17.33	17.40	17.46	17.52
Maximum Power Voltage-Vmpp(V)	41.48	41.57	41.67	41.76	41.85
Maximum Power Current-Imp(A)	16.41	16.49	16.58	16.66	16.74
Module Efficiency (%) ★	21.9	22.1	22.2	22.4	22.5

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3. Bifacial factor:(%) 85±5 ★ Module Efficiency (%): Round-off to the nearest number

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	748	754	759	765	770
Open Circuit Voltage-Voc(V)	49.47	49.58	49.69	49.80	49.91
Short Circuit Current-Isc(A)	18.99	19.06	19.14	19.21	19.27
Maximum Power Voltage-Vmpp(V)	41.48	41.57	41.67	41.76	41.85
Maximum Power Current-Imp(A)	18.05	18.14	18.24	18.33	18.41

Rear side power 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	RSM132-8-680BHDG	RSM132-8-685BHDG	RSM132-8-690BHDG	RSM132-8-695BHDG	RSM132-8-700BHDG
Maximum Power-Pmax (Wp)	519.3	523.0	527.1	530.8	534.5
Open Circuit Voltage-Voc (V)	46.35	46.46	46.56	46.66	46.77
Short Circuit Current-Isc (A)	14.15	14.21	14.27	14.32	14.37
Maximum Power Voltage-Vmpp (V)	38.78	38.87	38.96	39.05	39.13
Maximum Power Current-Imp (A)	13.39	13.46	13.53	13.59	13.66

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

MECHANICAL DATA

Solar cells	HJT cell
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2384×1303×35mm
Weight	41kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	High strength alloy steel
J-Box	Potted, IP68, 1500VDC, TÜV&UL Certified
Cables	4.0mm ² (12AWG), Positive(+)350mm, Negative(-)230mm (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	35A
Limiting Reverse Current	35A

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	558
Number of modules per pallet	31
Number of pallets per container	18
Box gross weight[kg]	1315

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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