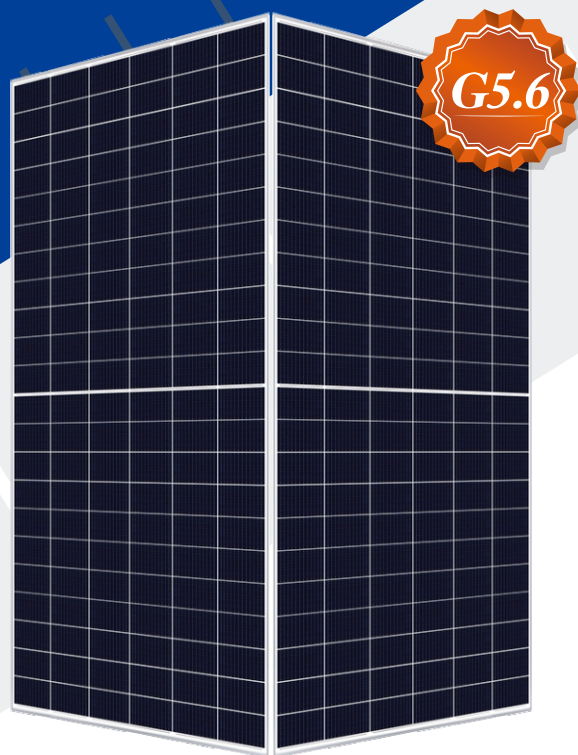




HIGH PERFORMANCE BIFACIAL PERC MONOCRYSTALLINE MODULE



* 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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risen

Preliminary
For Global Market

RSM132-8-640BMDG-665BMDG

132 CELL

Mono PERC Module

640-665Wp

Power Output Range

1500VDC

Maximum System Voltage

21.4%

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

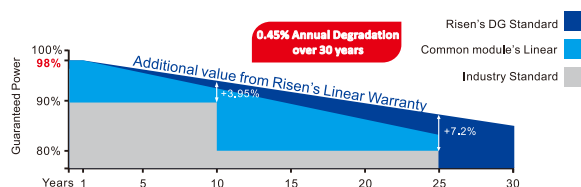


Comprehensive product and system certification

- ◆ 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

LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 30 year Linear Power Warranty

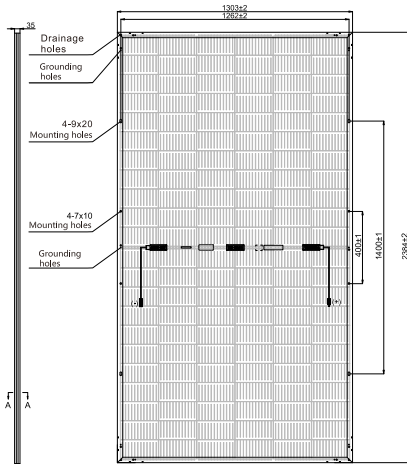


★ Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

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Dimensions of PV Module

Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM132-8-640BMDG	RSM132-8-645BMDG	RSM132-8-650BMDG	RSM132-8-655BMDG	RSM132-8-660BMDG	RSM132-8-665BMDG
Rated Power in Watts-Pmax(Wp)	640	645	650	655	660	665
Open Circuit Voltage-Voc(V)	45.09	45.29	45.49	45.69	45.89	46.09
Short Circuit Current-Isc(A)	18.08	18.13	18.18	18.23	18.28	18.33
Maximum Power Voltage-Vmpp(V)	37.51	37.69	37.87	38.05	38.23	38.41
Maximum Power Current-Impp(A)	17.07	17.12	17.17	17.22	17.27	17.32
Module Efficiency (%) ★	20.6	20.8	20.9	21.1	21.2	21.4

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
Bifacial factor: 70%±5 ★ Module Efficiency (%): Round-off to the nearest number

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	704	710	715	721	726	732
Open Circuit Voltage-Voc(V)	45.09	45.29	45.49	45.69	45.89	46.09
Short Circuit Current-Isc(A)	18.89	19.94	20.00	20.05	20.11	20.16
Maximum Power Voltage-Vmpp(V)	37.51	37.69	37.87	38.05	38.23	38.41
Maximum Power Current-Impp(A)	18.78	18.83	18.89	18.94	19.00	19.05

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	RSM132-8-640BMDG	RSM132-8-645BMDG	RSM132-8-650BMDG	RSM132-8-655BMDG	RSM132-8-660BMDG	RSM132-8-665BMDG
Maximum Power-Pmax (Wp)	484.9	488.6	492.4	496.2	500.0	503.8
Open Circuit Voltage-Voc (V)	41.93	42.12	42.31	42.49	42.68	42.86
Short Circuit Current-Isc (A)	14.83	14.87	14.91	14.95	14.99	15.03
Maximum Power Voltage-Vmpp (V)	34.81	34.98	35.14	35.31	35.48	35.64
Maximum Power Current-Impp (A)	13.93	13.97	14.01	14.05	14.09	14.13

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

MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2384×1303×35mm
Weight	38.5kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)350mm, Negative(-)350mm (Connector Included)
Connector	Risen Twinseal PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

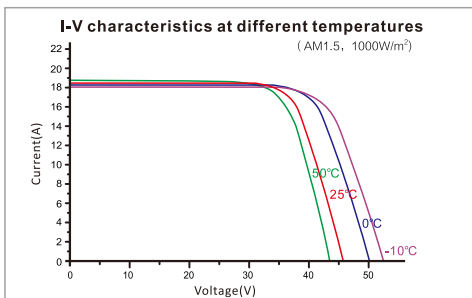
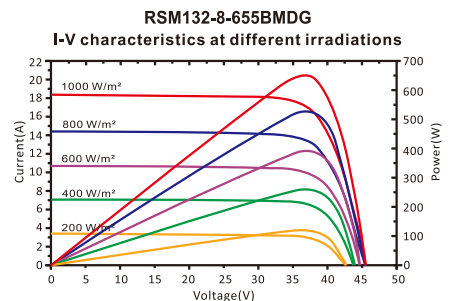
PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	558
Number of modules per pallet	31
Number of pallets per container	18
Box gross weight[kg]	1245

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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