

HIGH PERFORMANCE BIFACIAL PERC MONOCRYSTALLINE MODULE



























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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RSM132-8-650BMDG-670BMDG

650-670Wp **132 CELL Power Output Range** Mono PERC Module

1500VDC 21.6%

Maximum Efficiency Maximum System Voltage

KEY SALIENT FEATURES

Global, Tier 1 bankable brand, with independently TIER 1 certified state-of-the-art automated manufacturing

Bifacial

PID

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

2 Dual stage 100% EL Inspection warranting defect-free product

Positive power tolerance of 0~+3%

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

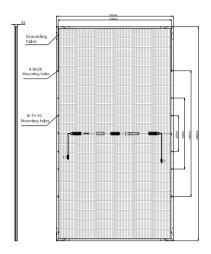
12 year Product Warranty / 30 year Linear Power Warranty



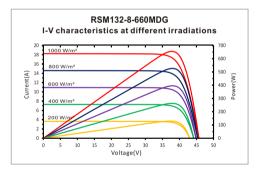
★ Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

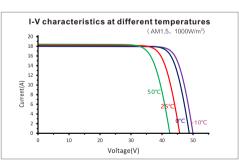


Dimensions of PV Module Unit: mm









Our Partners:

REM132-BMDG-12BB-EN-H2-1-2023

ELECTRICAL DATA (STC)

Model Number	RSM132-8-650BMDG	RSM132-8-655BMDG	RSM132-8-660BMDG	RSM132-8-665BMDG	RSM132-8-670BMDG
	N3W132-0-030DWDG	NOW 102-0-0000MDG			KOMIOZ-0-070DMDG
Rated Power in Watts-Pmax(Wp)	650	655	660	665	670
Open Circuit Voltage-Voc(V)	45.49	45.69	45.89	46.09	46.29
Short Circuit Current-Isc(A)	18.18	18.23	18.28	18.33	18.38
Maximum Power Voltage-Vmpp(V)	37.87	38.05	38.23	38.41	38.59
Maximum Power Current-Impp(A)	17.17	17.22	17.27	17.32	17.37
Module Efficiency (%) ★	20.9	21.1	21.2	21.4	21.6

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3. Bifacial factor: 70±10(%) ★Module Efficiency (%): Round-off to the nearest number

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	715	721	726	732	737
Open Circuit Voltage-Voc(V)	45.49	45.69	45.89	46.09	46.29
Short Circuit Current-Isc(A)	20.00	20.05	20.11	20.16	20.22
Maximum Power Voltage-Vmpp(V)	37.87	38.05	38.23	38.41	38.59
Maximum Power Current-Impp(A)	18.89	18.94	19.00	19.05	19.11

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)

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Model Number	RSM132-8-650BMDG	RSM132-8-655BMDG	RSM132-8-660BMDG	RSM132-8-665BMDG	RSM132-8-670BMDG
Maximum Power-Pmax (Wp)	492.4	496.2	500.0	503.8	507.6
Open Circuit Voltage-Voc (V)	42.31	42.49	42.68	42.86	43.05
Short Circuit Current-Isc (A)	14.91	14.95	14.99	15.03	15.07
Maximum Power Voltage-Vmpp (V)	35.14	35.31	35.48	35.64	35.81
Maximum Power Current-Impp (A)	14.01	14.05	14.09	14.13	14.17

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

MECHANICAL DATA

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Solar cells	Monocrystalline			
Cell configuration	132 cells (6×11+6×11)			
Module dimensions	2384×1303×33mm			
Weight	38.3kg			
Superstrate	High Transmission, AR Coated Heat Strengthened Glass			
Substrate	Heat Strengthened Glass			
Frame	Anodized Aluminium Alloy , Silver Color			
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes			
Cables	4.0mm², Positive(+)350mm, Negative(-)230mm (Connector Included) or customized length			
Connector	Risen Twinsel 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	594
Number of modules per pallet	33
Number of pallets per container	18
Packaging box dimensions (LxWxH) in mm	1320×1125×2520
Box gross weight[kg]	1315

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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