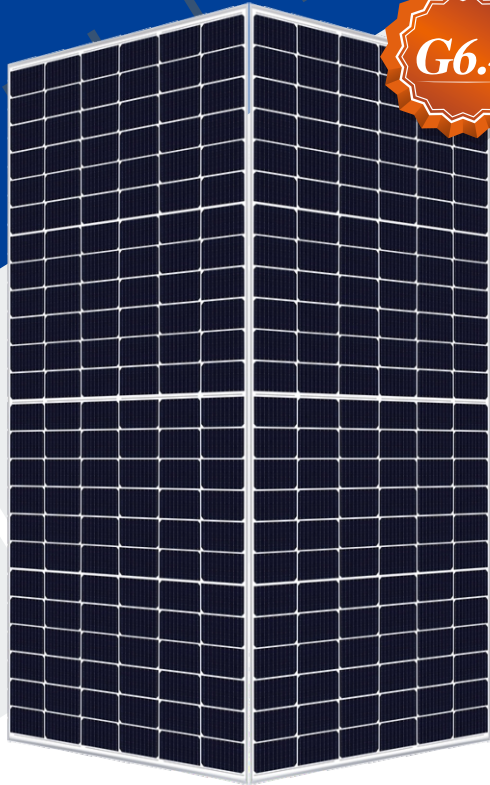


# HIGH PERFORMANCE BIFACIAL PERC MONOCRYSTALLINE MODULE



**G6.4**

## RSM144-9-520BMDG-540BMDG

**144 CELL**

Mono PERC Module

**520-540Wp**

Power Output Range

**1500VDC**

Maximum System Voltage

**20.8%**

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



Warranted reliability and stringent quality assurances well beyond certified requirements



Certified to withstand severe environmental conditions

- Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
- Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
- Excellent mechanical load 2400Pa & snow load 5400Pa resistance



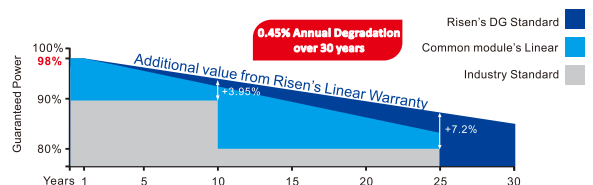
### RISEN ENERGY CO., LTD.

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

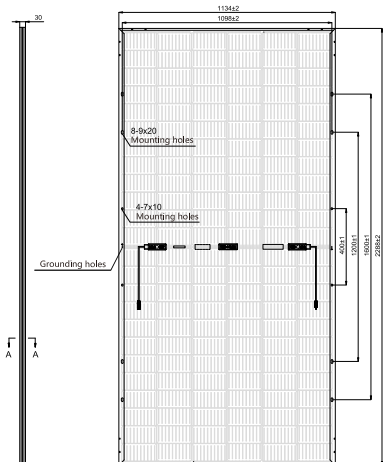


★ Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd



Preliminary  
For Global Market

### Dimensions of PV Module Unit: mm



### ELECTRICAL DATA (STC)

Model Number	RSM144-9-520BMDG	RSM144-9-525BMDG	RSM144-9-530BMDG	RSM144-9-535BMDG	RSM144-9-540BMDG
Rated Power in Watts-Pmax(Wp)	<b>520</b>	<b>525</b>	<b>530</b>	<b>535</b>	<b>540</b>
Open Circuit Voltage-Voc(V)	49.20	49.30	49.40	49.50	49.60
Short Circuit Current-Isc(A)	13.35	13.45	13.55	13.64	13.73
Maximum Power Voltage-Vmpp(V)	41.55	41.65	41.75	41.87	41.99
Maximum Power Current-Impp(A)	12.52	12.61	12.70	12.79	12.88
Module Efficiency (%) ★	20.0	20.2	20.4	20.6	20.8

STC: Irradiance 1000 W/m<sup>2</sup>, 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

	572	578	583	589	594
Total Equivalent power -Pmax (Wp)	572	578	583	589	594
Open Circuit Voltage-Voc(V)	49.20	49.30	49.40	49.50	49.60
Short Circuit Current-Isc(A)	14.69	14.80	14.91	15.00	15.10
Maximum Power Voltage-Vmpp(V)	41.55	41.65	41.75	41.87	41.99
Maximum Power Current-Impp(A)	13.77	13.87	13.97	14.06	14.17

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	RSM144-9-520BMDG	RSM144-9-525BMDG	RSM144-9-530BMDG	RSM144-9-535BMDG	RSM144-9-540BMDG
Maximum Power-Pmax (Wp)	389.4	393.2	397.1	400.9	404.8
Open Circuit Voltage-Voc (V)	46.25	46.34	46.44	46.53	46.62
Short Circuit Current-Isc (A)	10.95	11.03	11.11	11.18	11.26
Maximum Power Voltage-Vmpp (V)	38.40	38.50	38.60	38.70	38.80
Maximum Power Current-Impp (A)	10.14	10.21	10.29	10.35	10.43

NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

### MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	144 cells (6×12×6×12)
Module dimensions	2288×1134×30mm
Weight	32.5kg
Substrate	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 <sup>2</sup> (12AWG), Positive(+)/350mm, Negative(-)/350mm (Connector Included)
Connector	Risen Twinsel PV-SY02, IP68

### TEMPERATURE & MAXIMUM RATINGS

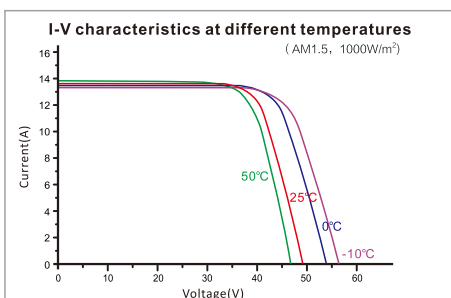
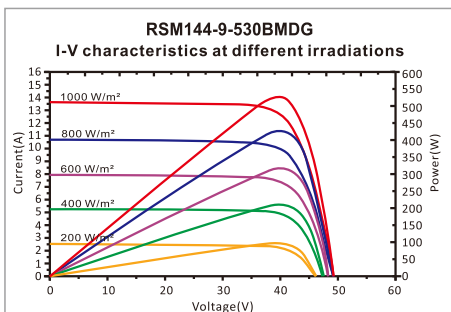
Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

### PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	700
Number of modules per pallet	35
Number of pallets per container	20
Packaging box dimensions (LxWxH) in mm	2355×1130×1275
Box gross weight[kg]	1170

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.  
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THE POWER OF RISING VALUE



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