



### RSM110-8-530BMDG-550BMDG

**110 CELL**

Mono PERC Module

**530-550Wp**

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



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



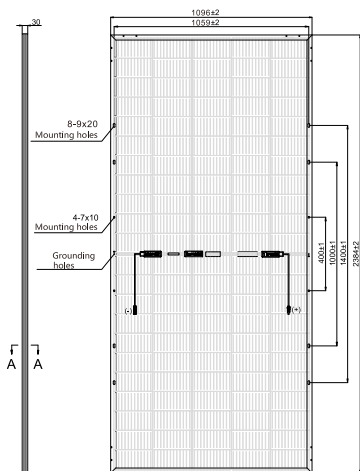
Excellent wind load 2400Pa & snow load 5400Pa under certain installation method



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

## Dimensions of PV Module Unit: mm



## ELECTRICAL DATA (STC)

Model Number	RSM110-8-530BMDG	RSM110-8-535BMDG	RSM110-8-540BMDG	RSM110-8-545BMDG	RSM110-8-550BMDG
Rated Power in Watts-Pmax(Wp)	<b>530</b>	<b>535</b>	<b>540</b>	<b>545</b>	<b>550</b>
Open Circuit Voltage-Voc(V)	37.44	37.66	37.88	38.10	38.32
Short Circuit Current-Isc(A)	18.02	18.07	18.13	18.18	18.23
Maximum Power Voltage-Vmpp(V)	31.16	31.36	31.56	31.76	31.96
Maximum Power Current-Impp(A)	17.02	17.07	17.12	17.17	17.22
Module Efficiency (%) ★	20.3	20.5	20.7	20.9	21.0

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

	583	589	594	600	605
Total Equivalent power -Pmax (Wp)	583	589	594	600	605
Open Circuit Voltage-Voc(V)	37.44	37.66	37.88	38.10	38.32
Short Circuit Current-Isc(A)	19.82	19.88	19.94	20.00	20.05
Maximum Power Voltage-Vmpp(V)	31.16	31.36	31.56	31.76	31.96
Maximum Power Current-Impp(A)	18.72	18.78	18.83	18.89	18.94

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	RSM110-8-530BMDG	RSM110-8-535BMDG	RSM110-8-540BMDG	RSM110-8-545BMDG	RSM110-8-550BMDG
Maximum Power-Pmax (Wp)	401.6	405.4	409.1	412.9	416.8
Open Circuit Voltage-Voc (V)	34.82	35.02	35.23	35.43	35.64
Short Circuit Current-Isc (A)	14.78	14.82	14.87	14.91	14.95
Maximum Power Voltage-Vmpp (V)	28.92	29.10	29.29	29.47	29.66
Maximum Power Current-Impp (A)	13.89	13.93	13.97	14.01	14.05

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

## MECHANICAL DATA

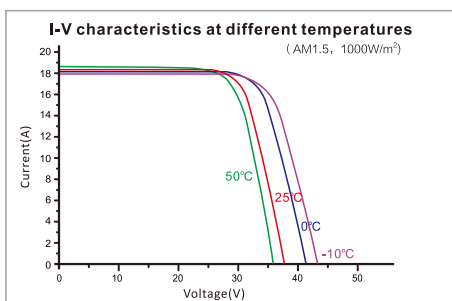
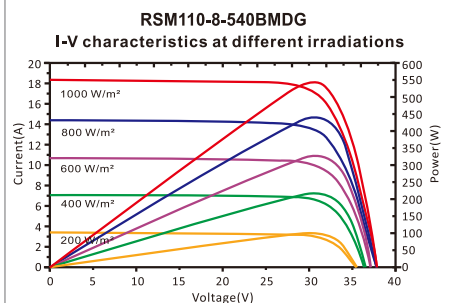
Solar cells	Monocrystalline
Cell configuration	110 cells (5×11+5×11)
Module dimensions	2384×1096×30mm
Weight	33±0.5kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm <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	-0.25%/°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	700
Number of modules per pallet	35
Number of pallets per container	20
Packaging box dimensions (LxWxH) in mm	2401×1085×1235
Box gross weight[kg]	1225



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