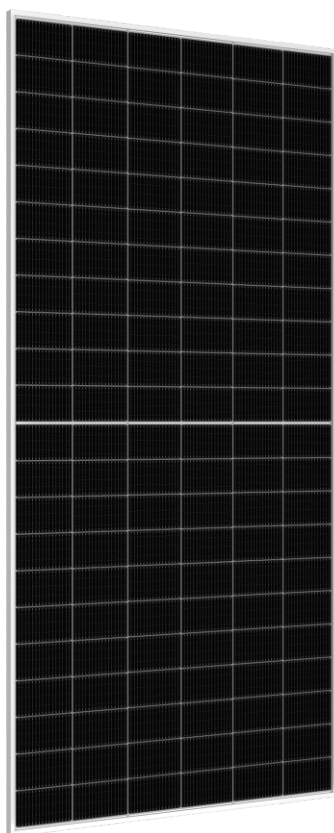




## *n*-type TOPCon

# HIGH PERFORMANCE BIFACIAL MODULE

### RSM132-11-610-635B NDG



The module picture is for reference only

## 610-635<sub>Wp</sub>

Power Output Range

## 23.5%

Maximum Efficiency

## 0~+3%

Positive power tolerance

## 1500<sub>VDC</sub>

Maximum System Voltage

### KEY FEATURES



Excellent power generation



Excellent anti-LID & anti-PID performance



Excellent temperature coefficient (Pmax): - 0.29%/°C



Excellent weak-light performance

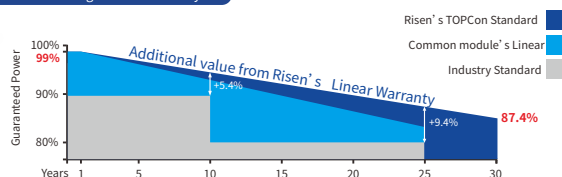


Excellent warranty assurance

### LINEAR PERFORMANCE WARRANTY

15 years Product Warranty / 30 years Linear Power Warranty

0.4% Annual Degradation over 30 years



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



\* 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.

1. *Spilargus* sp. nov.



\*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

### I-V characteristics at different irradiations

(AM1.5, 1000W/m<sup>2</sup>)

## PACKAGING CONFIGURATION

Number of modules per container	720	144
Number of modules per pallet	36	36
Number of pallets per container	20	4
Packaging box dimensions (LxWxH) in mm	2395 × 1110 × 1260	
Box gross weight [kg]	1238	

### ELECTRICAL DATA (STC)

Model Type	RSM132-11-610-635BNDG					
Rated Power in Watts-Pmax(Wp)	<b>610</b>	<b>615</b>	<b>620</b>	<b>625</b>	<b>630</b>	<b>635</b>
Open Circuit Voltage-Voc(V)	48.69	48.89	49.08	49.27	49.46	49.65
Short Circuit Current-Isc(A)	15.92	15.98	16.04	16.10	16.16	16.22
Maximum Power Voltage-Vmpp(V)	40.46	40.64	40.81	40.98	41.17	41.36
Maximum Power Current-Impp(A)	15.08	15.14	15.20	15.26	15.31	15.36
Module Efficiency (%) *	22.6	22.8	23.0	23.1	23.3	23.5

★ Module Efficiency (%): Rounding to the nearest number

Bifacial factor:  $80 \pm 5(\%)$  ★ Module Efficiency (%): Rounding to the nearest number

### Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	671	677	682	688	693	699
Open Circuit Voltage-Voc(V)	48.69	48.89	49.08	49.27	49.46	49.65
Short Circuit Current-Isc(A)	17.51	17.58	17.64	17.71	17.78	17.84
Maximum Power Voltage-Vmpp(V)	40.46	40.64	40.81	40.98	41.17	41.36
Maximum Power Current-Imp(A)	16.59	16.65	16.72	16.79	16.84	16.90

**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 Type	RSM132-11-610-635BNDG					
Maximum Power-Pmax (Wp)	462.0	465.9	469.7	473.5	477.3	481.1
Open Circuit Voltage-Voc (V)	45.28	45.47	45.64	45.82	46.00	46.17
Short Circuit Current-Isc (A)	13.05	13.10	13.15	13.20	13.25	13.30
Maximum Power Voltage-Vmpp (V)	37.55	37.71	37.87	38.03	38.21	38.38
Maximum Power Current-Imp (A)	12.31	12.35	12.40	12.45	12.49	12.53

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

## MECHANICAL DATA

Solar cells	<i>n</i> -type TOPCon
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2382×1134×30mm (93.78×44.65×1.18 in)
Weight	32.5kg (71.65 lb)
Superstrate	2.0mm(0.08 in), High Transmission, AR Coated Heat Strengthened Glass
Substrate	2.0mm(0.08 in), Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky by pass diodes
Cables	4.0mm <sup>2</sup> , 350mm(13.78 in) (+), 230mm(9.06 in) (-), connector included, or customized length
Connector	PV-SY02/Others
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back), under certain installation method

## TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C ± 2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C ~ +85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	35A
Limiting Reverse Current	35A



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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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