

# *n*-type TOPCon

# **HIGH PERFORMANCE DUAL GLASS MODULE**

# RSM108-10-430-455BNDG



The module picture is for reference only

# **430-455**<sub>Wp</sub>

Power Output Range

0~+3%

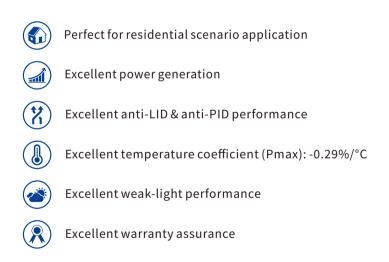
Positive power tolerance

**22.3** %

 $1500_{\text{VDC}}$ 

Maximum System Voltage

## **KEY FEATURES**





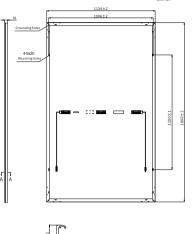
\* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

#### LINEAR PERFORMANCE WARRANTY



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

Dimensions of PV Module



RSM108-10-440BNDG

I-V characteristics at different irradiations

20 25 30

I-V characteristics at different temperatures

25 30

20

**PACKAGING CONFIGURATION** 

400

350 g 300

250

200

150 100 50

40

Voltage(V)

45

20ft

216

36

6

1816×1140×1260

945

Voltage(V)

35

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

35 40

40ft(HQ)

936

36

26



Current(A)

14

12

1000 W/m

600 W

400 W

10 15

## **ELECTRICAL DATA (STC)**

Model Type	RSM108-10-430-455BNDG					
Rated Power in Watts-Pmax(Wp)	430	435	440	445	450	455
Open Circuit Voltage-Voc(V)	38.17	38.39	38.61	38.83	39.05	39.27
Short Circuit Current-Isc(A)	14.40	14.47	14.55	14.61	14.66	14.74
Maximum Power Voltage-Vmpp(V)	31.72	31.90	32.08	32.27	32.44	32.63
Maximum Power Current-Impp(A)	13.58	13.66	13.74	13.82	13.88	13.96
Module Efficiency (%) \star	21.1	21.3	21.6	21.8	22.1	22.3

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

★ Module Efficiency (%): Round-off to the nearest number

## **ELECTRICAL DATA (NMOT)**

Model Type	RSM108-10-430-455BNDG					
Maximum Power-Pmax (Wp)	326.3	330.1	333.9	337.7	341.0	344.9
Open Circuit Voltage-Voc (V)	35.50	35.70	35.91	36.11	36.32	36.52
Short Circuit Current-Isc (A)	11.81	11.87	11.93	11.98	12.02	12.08
Maximum Power Voltage-Vmpp (V)	29.44	29.61	29.77	29.94	30.10	30.28
Maximum Power Current-Impp (A)	11.08	11.15	11.21	11.28	11.33	11.39

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	108 cells (6×9+6×9)		
Module dimensions	1800×1134×30mm		
Weight	22kg		
Superstrate	High Transmission, Low Iron, AR Coated Heat Strengthened Glass		
Substrate	Heat Strengthened Glass		
Frame	Anodized Aluminium Alloy, Silver Color		
J-Box	Potted, IP68, 1500VDC, 3 Schottky by pass diodes		
Cables	<ol> <li>4.0mm<sup>2</sup>, Positive(+)1200mm, Negative(-)1200mm (Connector Included), or customized length</li> </ol>		
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	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

THE POWER OF RISING VALUE



Box gross weight[kg]

#### RISEN ENERGY CO., LTD.

15

Number of modules per container

Number of modules per pallet

Number of pallets per container

Packaging box dimensions (LxWxH) in mm

10

5

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