



RSM108-10NDGB-430-455_

Cells

108

Efficiency

Up to 22,1%

Module dimensions

1800 X 1134 X 30 mm

Module characteristics

Full black

Packaging

36 modules per pallet, 936 modules per 40'HC

Technology

N-Type

Product warranty

25 years warranty

Performance warranty

30 years warranty





Full-black Aesthetic

n-type TOPCon Dual Glass Module



The module picture is for reference only



RSM108-10-430-450NDGB

KEY FEATURES

- Full-black design with aesthetic appearance
- Perfect for residential scenario application
- 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

25 years Product Warranty / 30 years Linear Power Warranty



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



























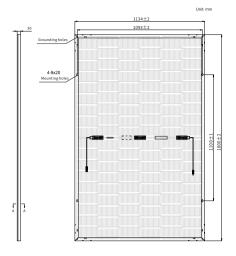






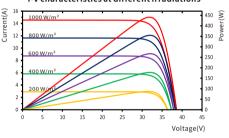
* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

Dimensions of PV Module

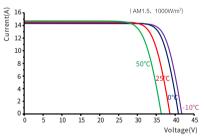




RSM108-10-440NDGB I-V characteristics at different irradiations



I-V characteristics at different temperatures



PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	936	216
Number of modules per pallet	36	36
Number of pallets per container	26	6
Packaging box dimensions (LxWxH) in mm	1816×1140×1260	
Box gross weight[kg]	945	

ELECTRICAL DATA (STC)

Model Type		RSM	108-10-430-450	NDGB	
Rated Power in Watts-Pmax(Wp)	430	435	440	445	450
Open Circuit Voltage-Voc(V)	38.17	38.39	38.61	38.83	39.05
Short Circuit Current-Isc(A)	14.40	14.47	14.55	14.61	14.66
Maximum Power Voltage-Vmpp(V)	31.72	31.90	32.08	32.27	32.44
Maximum Power Current-Impp(A)	13.58	13.66	13.74	13.82	13.88
Module Efficiency (%) ★	21.1	21.3	21.6	21.8	22.1

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

Bifacial factor: 80±10(%) ★ Module Efficiency (%): Rounding to the nearest number

ELECTRICAL DATA (NMOT)

Model Type		RSM	108-10-430-450	NDGB	
Maximum Power-Pmax (Wp)	326.3	330.1	333.9	337.7	341.0
Open Circuit Voltage-Voc (V)	35.50	35.70	35.91	36.11	36.32
Short Circuit Current-Isc (A)	11.81	11.87	11.93	11.98	12.02
Maximum Power Voltage-Vmpp (V)	29.44	29.61	29.77	29.94	30.10
Maximum Power Current-Impp (A)	11.08	11.15	11.21	11.28	11.33

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

MECHANICAL DATA

Solar cells	n-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, Black
J-Box	Potted, IP68, 1500VDC, 3 Schottky by pass diodes
Cables	4.0mm ² , Positive(+)1200mm, Negative(-)1200mm (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	0.046%/°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



 ${\sf RISEN\,ENERGY\,CO.,LTD.}$

Tashan Industry Zone, Meilin, Ninghai 315609, Ningbo | PRC Tel: +86-574-59953239

Fax: +86-574-59953599

E-mail: marketing@risenenergy.com Website: www.risenenergy.com CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. ©2023 Risen Energy. All rights reserved. Contents included in this datasheet are subject to change without notice. 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.

Version: REM108-NDGB-16BB-EN-H2-2-2023