

n-type TOPCon

HIGH PERFORMANCE DUAL GLASS MODULE

RSM108-9-415-440BNDG



The module picture is for reference only



Power Output Range

0~+3%

Positive power tolerance

22.5 %

1500_{VDC}

Maximum System Voltage

KEY FEATURES

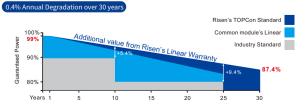




* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

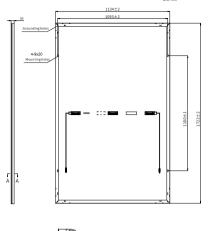
LINEAR PERFORMANCE WARRANTY

15 years Product Warranty / 30 years Linear Power Warranty



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

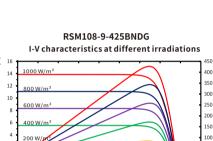
Dimensions of PV Module lait and





10 15 20 25 30 35 40 45 Voltage(V)

Current(A)



ver(W)

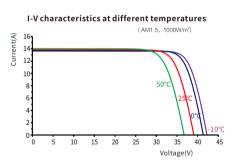
400 350 2

300

250

200

100 50



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	1745×1110×1260	
Box gross weight[kg]	780	

ELECTRICAL DATA (STC)

Model Type			RSM108-9-4	15-440BNDG		
Rated Power in Watts-Pmax(Wp)	415	420	425	430	435	440
Open Circuit Voltage-Voc(V)	38.67	38.87	39.07	39.26	39.46	39.65
Short Circuit Current-Isc(A)	13.69	13.78	13.86	13.94	14.01	14.09
Maximum Power Voltage-Vmpp(V)	32.39	32.59	32.78	32.98	33.18	33.38
Maximum Power Current-Impp(A)	12.83	12.91	12.99	13.06	13.12	13.19
Module Efficiency (%) \star	21.3	21.5	21.8	22.0	22.3	22.5

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			RSM108-9-41	.5-440BNDG		
Maximum Power-Pmax (Wp)	314.8	318.6	322.4	326.0	329.6	333.4
Open Circuit Voltage-Voc (V)	35.96	36.15	36.34	36.51	36.70	36.84
Short Circuit Current-Isc (A)	11.23	11.30	11.36	11.43	11.49	11.55
Maximum Power Voltage-Vmpp (V)	30.06	30.24	30.42	30.61	30.79	30.98
Maximum Power Current-Impp (A)	10.47	10.54	10.60	10.65	10.71	10.76

NMOT: Irradiance at 800 W/m², 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	1722×1134×30mm
Weight	20.5kg
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	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

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CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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