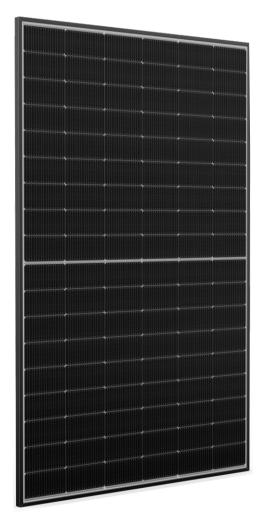


# *n*-type TOPCon

# HIGH PERFORMANCE DUAL GLASS MODULE

# RSM108-9-415-440NDG



The module picture is for reference only

415-440<sub>wo</sub>

Power Output Range

**22.5**%

Maximum Efficiency

0~+3%

Positive power tolerance

1500<sub>VDC</sub>

Maximum System Voltage

#### **KEY FEATURES**



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





























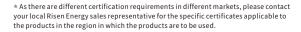






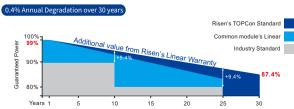




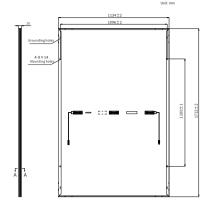


# LINEAR PERFORMANCE WARRANTY

15 years Product Warranty / 30 years Linear Power Warranty

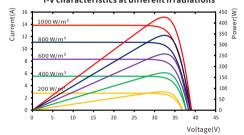


## Dimensions of PV Module

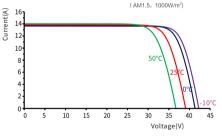




# RSM108-9-425NDG I-V characteristics at different irradiations



#### 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	1745×1110×1260		
Box gross weight[kg]	930		

# **ELECTRICAL DATA (STC)**

Model Type			RSM108-9-	415-440NDG		
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 (%) ★	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			RSM108-9-4	15-440NDG		
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	36.87
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	n-type TOPCon
Cell configuration	108 cells (6×9+6×9)
Module dimensions	1722×1134×30mm
Weight	24.5kg
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	4.0mm², 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

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 ${\tt CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.}\\$ 

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