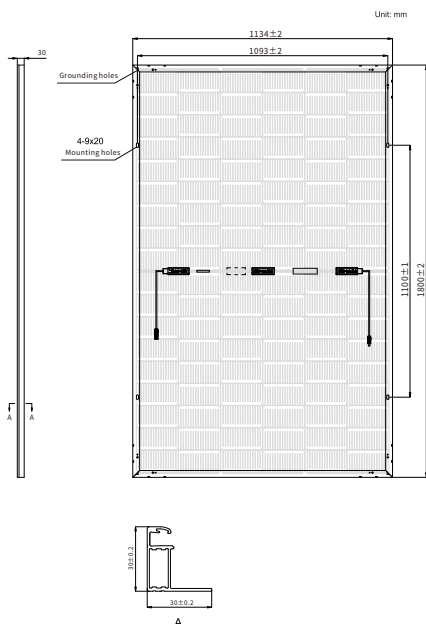


Dimensions of PV Module



ELECTRICAL DATA (STC)

Model Type	RSM108-10-440NDGB	RSM108-10-445NDGB
Rated Power in Watts-Pmax(Wp)	440	445
Open Circuit Voltage-Voc(V)	39.51	39.72
Short Circuit Current-Isc(A)	14.15	14.21
Maximum Power Voltage-Vmpp(V)	32.94	33.15
Maximum Power Current-Impp(A)	13.36	13.43
Module Efficiency (%) *	21.6	21.8

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5 according to EN 60904-3
 * Module Efficiency(%): Round-off to the nearest number
 Sorting and binning tolerances: 0-4.99W Measurement tolerance: ±3%
 Short Circuit Current tolerance ±4% Open Circuit Voltage tolerance: ±3%
 25 Years Limited Product Warranty; 30 Years Limited Power Warranty Bifacial factor: 80±10(%)
 The first year degradation:1%,annual degradation:0.4%,power retention rate within 30 years:87.4%

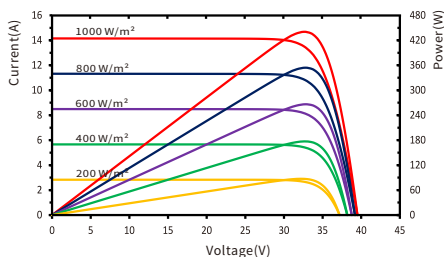
ELECTRICAL DATA (NMOT)

Model Type	RSM108-10-440NDGB	RSM108-10-445NDGB
Maximum Power-Pmax (Wp)	333.2	337.0
Open Circuit Voltage-Voc (V)	36.74	36.94
Short Circuit Current-Isc (A)	11.60	11.65
Maximum Power Voltage-Vmpp (V)	30.57	30.76
Maximum Power Current-Impp (A)	10.90	10.96

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

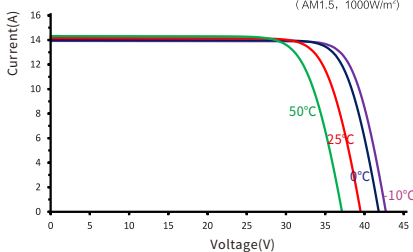
RSM108-10-440NDGB

I-V characteristics at different irradiances



I-V characteristics at different temperatures

(AM1.5, 1000W/m²)



MECHANICAL DATA

Solar cells	n-type TOPCon
Cell configuration	108 cells (6×9+6×9)
Module dimensions	1800×1134×30/35mm
Weight	21.5~28.5kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky by pass diodes
Cables	4.0mm ² , Positive(+)350mm, Negative(-)230mm (Connector Included)
Connector	Zhejiang Twinsel Electronic Technology Co.,Ltd. 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
Fire Class According to UI790	CLASS C
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

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	



THE POWER OF RISING VALUE

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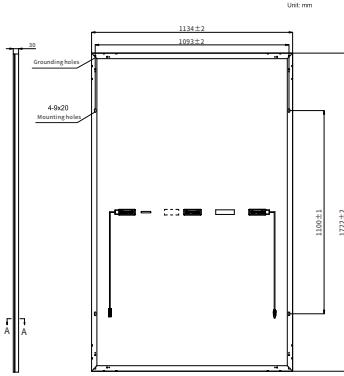
Website: www.risenenergy.com

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

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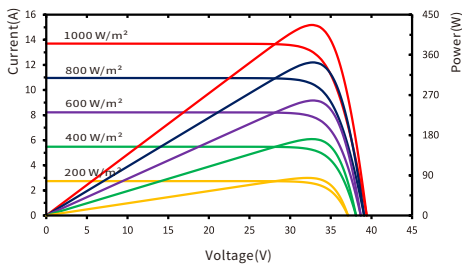
No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless as otherwise specifically committed by manufacturer in contract document.

Dimensions of PV Module

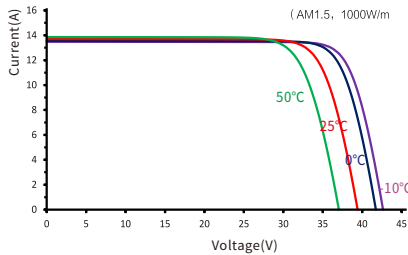


RSM108-9-425NDGB

I-V characteristics at different irradiances



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]	780	

ELECTRICAL DATA (STC)

Model Type	RSM108-9-420NDGB	RSM108-9-425NDGB
Rated Power in Watts-Pmax(Wp)	420	425
Open Circuit Voltage-Voc(V)	39.21	39.42
Short Circuit Current-Isc(A)	13.63	13.70
Maximum Power Voltage-Vmpp(V)	33.02	33.23
Maximum Power Current-Impp(A)	12.74	12.81
Module Efficiency (%) *	21.5	21.8

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5 according to EN 60904-3
 * Module Efficiency(%): Round-off to the nearest number
 Sorting and binning tolerances: 0-4.99W Measurement tolerance: ±3%
 Short Circuit Current tolerance ±4% Open Circuit Voltage tolerance: ±3%
 25 Years Limited Product Warranty; 30 Years Limited Power Warranty Bifacial factor: 80±10(%)
 The first year degradation:1%,annual degradation:0.4%,power retention rate within 30 years:87.4%

ELECTRICAL DATA (NMOT)

Model Type	RSM108-9-420NDGB	RSM108-9-425NDGB
Maximum Power-Pmax (Wp)	318.6	322.3
Open Circuit Voltage-Voc (V)	36.47	36.66
Short Circuit Current-Isc (A)	11.18	11.23
Maximum Power Voltage-Vmpp (V)	30.64	30.84
Maximum Power Current-Impp (A)	10.40	10.45

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	1722×1134×30/35mm
Weight	20.5~28.5kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky by pass diodes
Cables	4.0mm ² , Positive(+)350mm, Negative(-)230mm (Connector Included)
Connector	Zhejiang Twinsel Electronic Technology Co.,Ltd. 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
Fire Class According to UI790	CLASS C
Max Series Fuse Rating	30A
Limiting Reverse Current	30A



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