

n-type TOPCon HIGH PERFORMANCE BIFACIAL MODULE

RSM144-9-560-585BNDG



The module picture is for reference only

560-585_{Wp} 22.6_%

Power Output Range

Maximum Efficiency

0~+3%

Positive power tolerance

1500_{VDC}

Maximum System Voltage

KEY FEATURES



Excellent power generation



Excellent anti-LID & anti-PID performance



Excellent temperature coefficient (Pmax): -0.29%/°C



Excellent weak-light performance



Excellent warranty assurance

























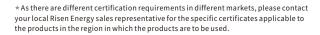






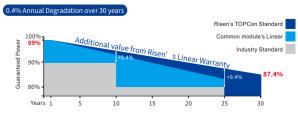




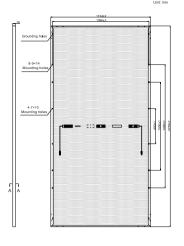


LINEAR PERFORMANCE WARRANTY

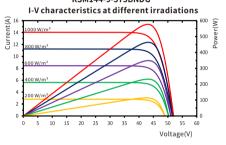
15 years Product Warranty / 30 years Linear Power Warranty



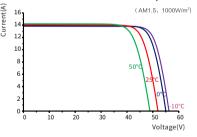
Dimensions of PV Module



RSM144-9-575BNDG



I-V characteristics at different temperatures



PACKAGING CONFIGURATION

	40ft(HQ)	20ft	
Number of modules per container	720	180	
Number of modules per pallet	36	36	
Number of pallets per container	20	5	
Packaging box dimensions (LxWxH) in mm	n 2290×1110×1260		
Box gross weight[kg]	1170		

ELECTRICAL DATA (STC)

Model Type	RSM144-9-560-585BNDG					
Rated Power in Watts-Pmax(Wp)	560	565	570	575	580	585
Open Circuit Voltage-Voc(V)	51.37	51.57	51.77	51.97	52.17	52.37
Short Circuit Current-Isc(A)	13.89	13.95	14.01	14.06	14.12	14.18
Maximum Power Voltage-Vmpp(V)	43.00	43.20	43.40	43.60	43.80	44.00
Maximum Power Current-Impp(A)	13.04	13.10	13.15	13.21	13.26	13.32
Module Efficiency (%) ★	21.7	21.9	22.1	22.3	22.5	22.6

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 characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	616	622	627	633	638	644
Open Circuit Voltage-Voc(V)	51.37	51.57	51.77	51.97	52.17	52.37
Short Circuit Current-Isc(A)	15.27	15.34	15.41	15.47	15.53	15.60
Maximum Power Voltage-Vmpp(V)	43.00	43.20	43.40	43.60	43.80	44.00
Maximum Power Current-Impp(A)	14.35	14.41	14.47	14.53	14.59	14.65

Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA (NMOT)

Model Type	RSM144-9-560-585BNDG					
Maximum Power-Pmax (Wp)	424.7	428.6	432.3	436.1	439.8	443.6
Open Circuit Voltage-Voc (V)	47.77	47.96	48.15	48.33	48.52	48.70
Short Circuit Current-Isc (A)	11.39	11.44	11.48	11.53	11.58	11.63
Maximum Power Voltage-Vmpp (V)	39.90	40.09	40.28	40.46	40.65	40.83
Maximum Power Current-Impp (A)	10.64	10.69	10.73	10.78	10.82	10.87

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

MECHANICAL DATA

Solar cells	n-type TOPCon
Cell configuration	144 cells (6×12+6×12)
Module dimensions	2278×1134×30mm
Weight	31kg
Superstrate	High Transmission, 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(+)350mm, Negative(-)230mm (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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