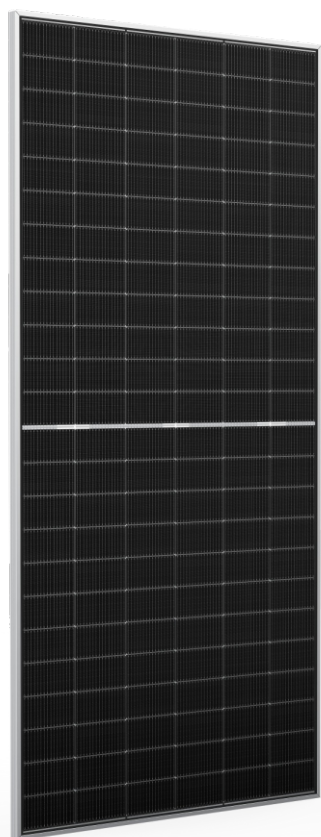




n-type TOPCon

HIGH PERFORMANCE BIFACIAL MODULE

RSM144-9-560-585BNDG



The module picture is for reference only

560-585_{Wp}

Power Output Range

22.6 %

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

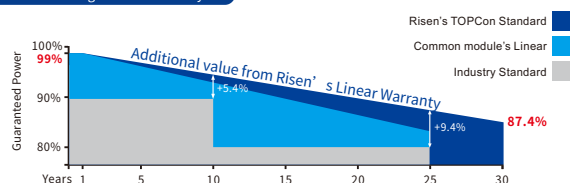


* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

LINEAR PERFORMANCE WARRANTY

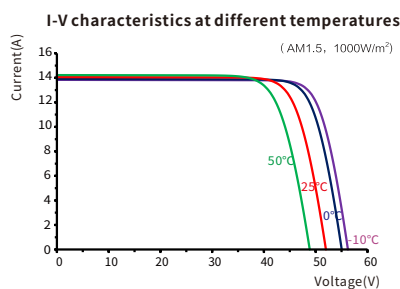
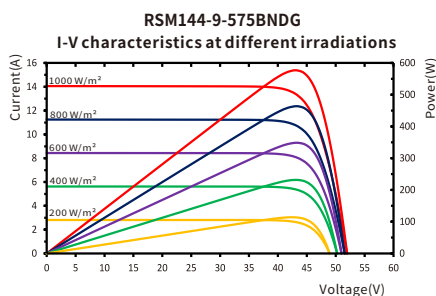
15 years Product Warranty / 30 years Linear Power Warranty

0.4% Annual Degradation over 30 years



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

Technical drawing of the front view of the 1000x1100mm cabinet. The drawing shows a large rectangular cabinet with a grid pattern. Dimensions include a total width of 1100mm and a total height of 1800mm. Mounting holes are specified as 8-Øx14 and 4-7x10. A grounding hole is also indicated. A detail view 'A' shows a cross-section of the cabinet's base, with dimensions 200x12 and 200x15.



	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	2290 × 1110 × 1260	
Box gross weight[kg]	1170	

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-Imp(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

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

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-Imp(A)	14.35	14.41	14.47	14.53	14.59	14.65

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-Imp (A)	10.64	10.69	10.73	10.78	10.82	10.87

Solar cells	<i>n</i> -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

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