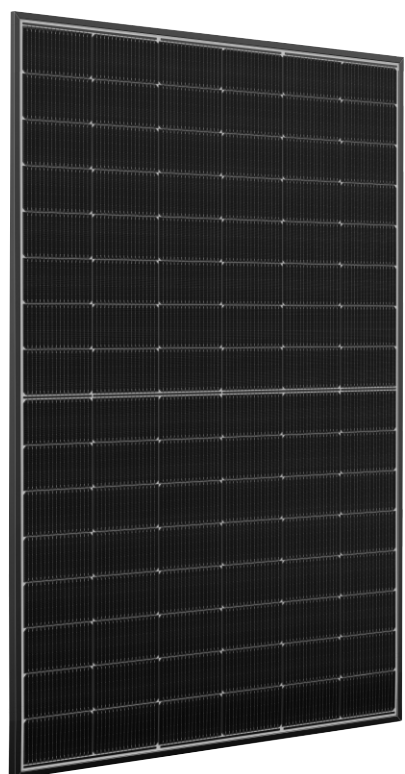


n-type TOPCon

HIGH PERFORMANCE BIFACIAL MODULE

RSM96-11-435-455BNDG



The module picture is for reference only

435-455 _{Wp}

Power Output Range

22.8 %

Maximum Efficiency







0~+3 %

Positive power tolerance

1500 _{VDC}

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

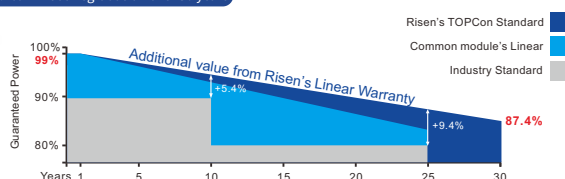


As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

LINEAR PERFORMANCE WARRANTY

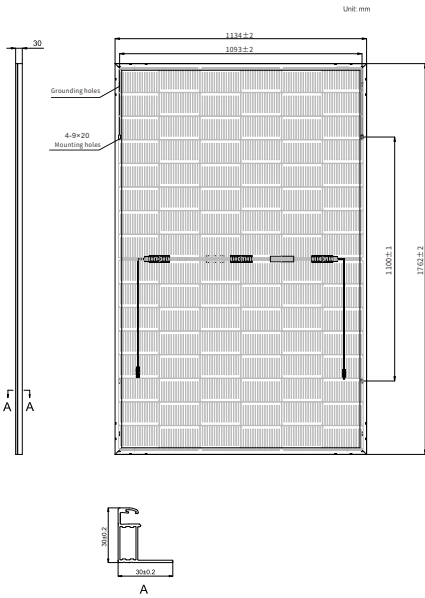
15 years Product Warranty / 30 years Linear Power Warranty

0.4% Annual Degradation over 30 years



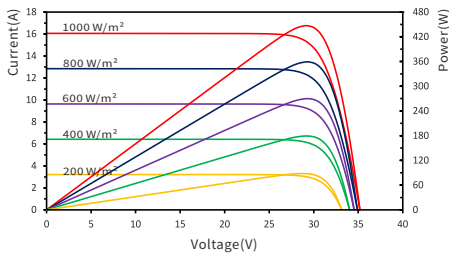
Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

Dimensions of PV Module

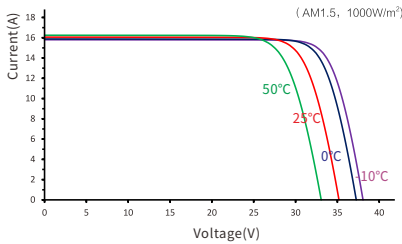


RSM96-11-445BNDG

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	1785×1110×1260	
Box gross weight[kg]	800	

ELECTRICAL DATA (STC)

Model Type	RSM96-11-435-455BNDG				
Rated Power in Watts-Pmax(Wp)	435	440	445	450	455
Open Circuit Voltage-Voc(V)	34.77	34.98	35.19	35.40	35.59
Short Circuit Current-Isc(A)	15.90	15.98	16.06	16.14	16.22
Maximum Power Voltage-Vmpp(V)	29.30	29.50	29.70	29.90	30.10
Maximum Power Current-Impp(A)	14.85	14.92	14.99	15.06	15.12
Module Efficiency (%) *	21.8	22.0	22.3	22.5	22.8

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)	479	484	490	495	501
Open Circuit Voltage-Voc(V)	34.77	34.98	35.19	35.40	35.59
Short Circuit Current-Isc(A)	17.49	17.58	17.67	17.75	17.84
Maximum Power Voltage-Vmpp(V)	29.30	29.50	29.70	29.90	30.10
Maximum Power Current-Impp(A)	16.34	16.41	16.49	16.57	16.63

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	RSM96-11-435-455BNDG				
Maximum Power-Pmax (Wp)	329.5	333.3	337.1	341.0	344.6
Open Circuit Voltage-Voc (V)	32.34	32.53	32.73	32.92	33.10
Short Circuit Current-Isc (A)	13.04	13.10	13.17	13.23	13.30
Maximum Power Voltage-Vmpp (V)	27.19	27.38	27.56	27.75	27.93
Maximum Power Current-Impp (A)	12.12	12.17	12.23	12.29	12.34

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

MECHANICAL DATA

Solar cells	n-type TOPCon
Cell configuration	96 cells (6×8+6×8)
Module dimensions	1762×1134×30mm
Weight	21kg
Superstrate	High Transmission, 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	4.0mm 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	35A
Limiting Reverse Current	35A



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THE POWER OF RISING VALUE

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

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