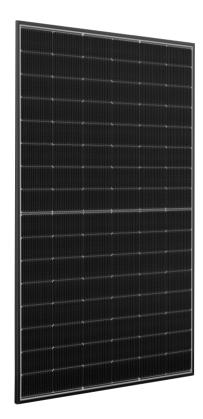


n-type TOPCon HIGH PERFORMANCE BIFACIAL MODULE

RSM96-11-440-460BNDG



The module picture is for reference only

440-460_{Wp}

23.0%

Power Output Range

Maximum Efficiency

0~+3%

1500_{VDC}

Positive power tolerance

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



















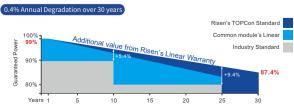




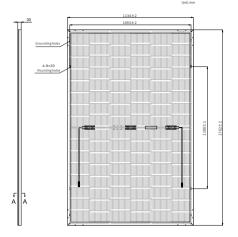


LINEAR PERFORMANCE WARRANTY

15 years Product Warranty / 30 years Linear Power Warranty



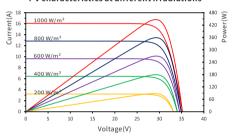
Dimensions of PV Module



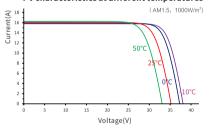


*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

RSM96-11-445BNDG 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	1785×1110×1260		
Box gross weight[kg]	818		

ELECTRICAL DATA (STC)

Model Type	RSM96-11-440-460BNDG				
Rated Power in Watts-Pmax(Wp)	440	445	450	455	460
Open Circuit Voltage-Voc(V)	34.98	35.19	35.40	35.59	35.79
Short Circuit Current-Isc(A)	15.98	16.06	16.14	16.22	16.30
Maximum Power Voltage-Vmpp(V)	29.50	29.70	29.90	30.10	30.28
Maximum Power Current-Impp(A)	14.92	14.99	15.06	15.12	15.22
Module Efficiency (%) ★	22.0	22.3	22.5	22.8	23.0

STC: Irradiance $1000\,\text{W/m}^2$, Cell Temperature 25°C , Air Mass AM1.5 according to EN 60904-3. Bifacial factor: $80\pm10(\%)$ \star Module Efficiency (%): Rounding to the nearest number

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	484	490	495	501	507
Open Circuit Voltage-Voc(V)	34.98	35.19	35.40	35.59	35.79
Short Circuit Current-Isc(A)	17.58	17.67	17.75	17.84	17.93
Maximum Power Voltage-Vmpp(V)	29.50	29.70	29.90	30.10	30.28
Maximum Power Current-Impp(A)	16.41	16.49	16.57	16.63	16.74

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	6-11-440-460BND0	ĵ	
Maximum Power-Pmax (Wp)	333.3	337.1	341.0	344.6	349.0
Open Circuit Voltage-Voc (V)	32.53	32.73	32.92	33.10	33.28
Short Circuit Current-Isc (A)	13.10	13.17	13.23	13.30	13.37
Maximum Power Voltage-Vmpp (V)	27.38	27.56	27.75	27.93	28.10
Maximum Power Current-Impp (A)	12.17	12.23	12.29	12.34	12.42

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 (69.37×44.65×1.18 in)
Weight	21.5kg (47.40 lb)
Superstrate	1.6mm(0.06 in), High Transmission, AR Coated Heat Strengthened Glass
Substrate	1.6mm(0.06 in), Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Black
J-Box	Potted, IP68, 1500VDC, 3 Schottky by pass diodes
Cables	4.0mm^2 , $1200 \text{mm} (47.24 \text{in})$ (+) , $1200 \text{mm} (47.24 \text{in})$ (-) , connector included , or customized length
Connector	MC4 EVO2/PV-SY02/Others
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back), under certain installation method

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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Version: REM96-BNDG-EN-H1-1-2025

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