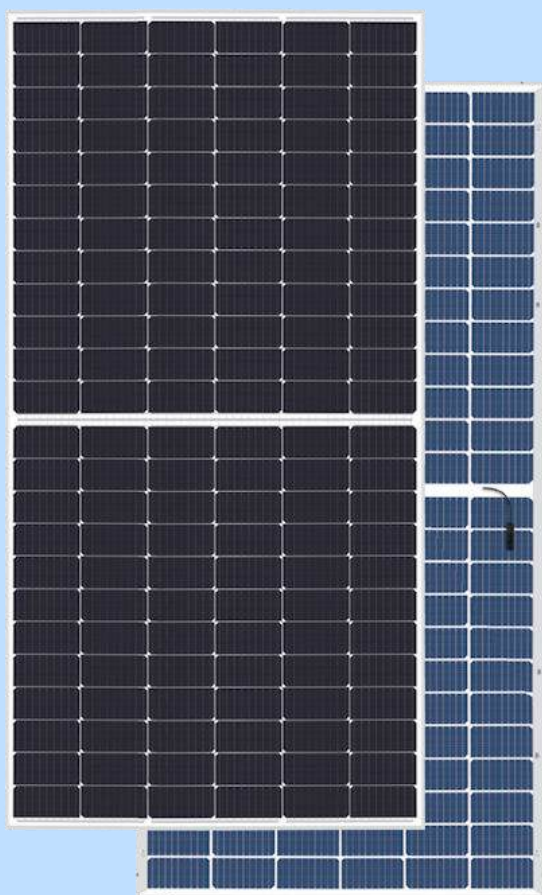




N-type TOPCon HIGH PERFORMANCE BIFACIAL MODULE

PB96-11-440-460



The module picture is for reference only

440-460 _{Wp}

Power Output Range

23.0 %

Maximum Efficiency

0~+3 %

Positive power tolerance

1500 _{VDC}

Maximum System Voltage

KEY FEATURES

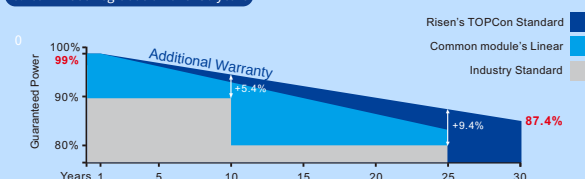
- Perfect for residential scenario application
- Excellent power generation
- Excellent anti-LID & anti-PID performance
- Excellent temperature coefficient (Pmax): -0.29%/°C
- Excellent weak-light performance
- Excellent warranty assurance

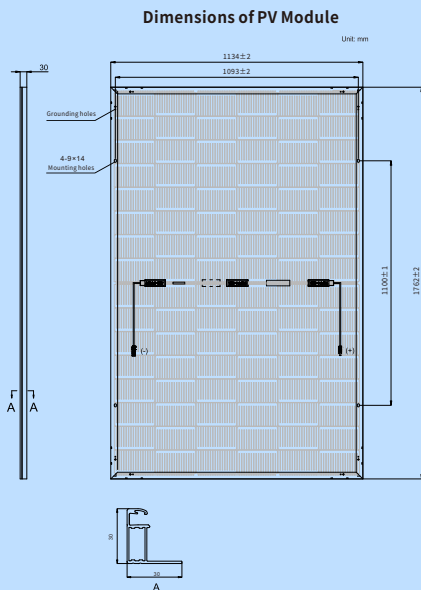


LINEAR PERFORMANCE WARRANTY

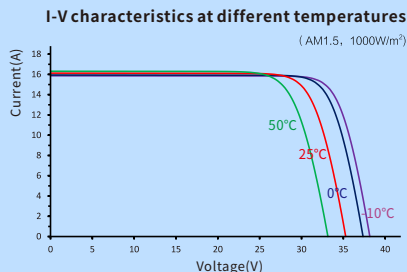
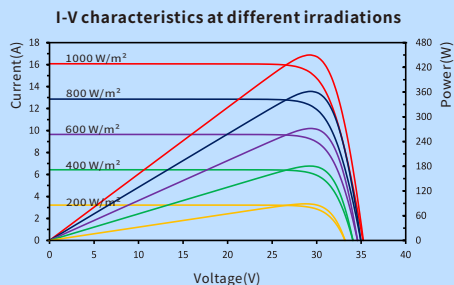
15 years Product Warranty / 30 years Linear Power Warranty

0.4% Annual Degradation over 30 years





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



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	PB96-11-440-460				
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 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

Bifacial factor: 80±5(%) * Module Efficiency (%): Rounding to the nearest number

ELECTRICAL DATA (BNPI)

Model Type	PB96-11-440-460				
Maximum Power-Pmax (Wp)	488	493	499	504	510
Open Circuit Voltage-Voc (V)	34.98	35.19	35.40	35.59	35.79
Short Circuit Current-Isc (A)	17.71	17.79	17.88	17.97	18.06
Maximum Power Voltage-Vmpp (V)	29.50	29.70	29.90	30.10	30.28
Maximum Power Current-Impp (A)	16.53	16.60	16.68	16.75	16.83

BNPI: Front side irradiance 1000 W/m², Rear side irradiance 135 W/m², Cell Temperature 25°C, Air Mass AM1.5.

Power measurement tolerance: ±3%

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.

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 , 1200mm(47.24 in) (+), 1200mm(47.24 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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