

RT8I-M

144 Cells

Mono Half-Cell 16 BB

590-610W

Power output

23.61%

The Highest Efficiency

0 ~ +5W

Tolerance



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RT8I-M(TOPCON)

RT8IXXXM HALF-CELL series is produced with high efficiency multi-busbar cells, which can reduce the module internal power loss to improve its conversion efficiency, as well as lower the failure risk caused by cracks and broken busbar to enhance the module reliability. Combined with half-cell technology, the module is highly resistant to hot-spot crisis caused by shadow effect.



High Reliability

Multi-busbar technology can effectively reduce the reliability risk caused by cells cracks and broken busbar.



Anti-PID Resistance

Prominent anti-PID performance reduces the power degradation, leading to higher energy yield and lower LCOE.



Durability Against Extreme Conditions

Certified to resist high salt mist and ammonia conditions.



High Efficiency

Multi-busbar technology can reduce the module internal power loss to improve the module conversion efficiency significantly.



Low-Light Performance

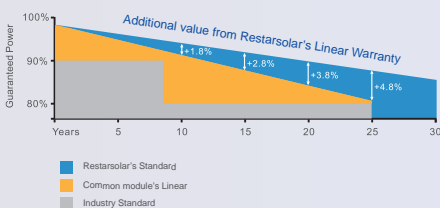
With high transmittance and anti-reflective 3.2mm tempered glass, the module has stronger performance under low light circumstances.



High Mechanical Strength

Certified to withstand: high wind load(2400Pa) and snow load(5400Pa).

0.5% Annual Degradation over 30 years



Full range of products and certification systems

ISO 9001/14001 TUV PID-FREE CE IEC 61215/61730/61701/62716

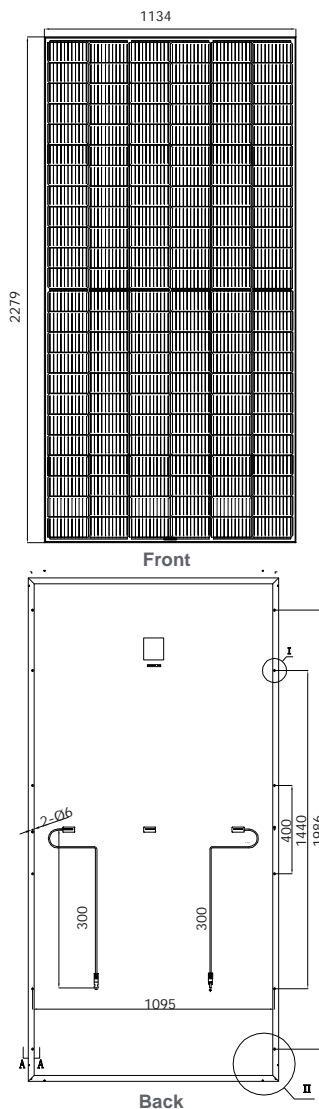


LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

30 Year Linear Power Warranty

Dimension of PV Modules Unit: mm



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	590	595	600	605	610
Open Circuit Voltage-Voc(V)	52.20	52.40	52.60	52.80	53.00
Short Circuit Current-Isc(A)	14.38	14.43	14.48	14.53	14.58
Maximum Power Voltage-Vmp(V)	43.50	43.70	43.90	44.10	44.30
Maximum Power Current-Imp(A)	13.57	13.62	13.67	13.72	13.77
Module Efficiency	22.84%	23.03%	23.23%	23.42%	23.61%

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

ELECTRICAL DATA(NOCT)

Maximum Power-Pmax(Wp)	448	452	456	460	464
Open Circuit Voltage-Voc (V)	48.91	49.10	49.29	49.47	49.66
Short Circuit Current-Isc(A)	11.62	11.66	11.70	11.74	11.78
Maximum Power Voltage-Vmp(V)	40.80	40.99	41.18	41.37	41.55
Maximum Power Current-Imp(A)	10.98	11.03	11.07	11.12	11.17

NOCT: irradiancia a 800 W/m², temperatura ambiente 20 °C, velocidad del viento 1 m/s.

MECHANICAL DATA

Solar Cells	Mono-crystalline 182*91mm, 16 Bus bars
Cell Configuration	144 cells(6*24)
Module Dimensions	2279*1134*30/35mm
Weight	27.2/28.6kg
Front Cover	3.2mm Tempered Glass
J-Box	IP68
Cable	4mm ² (IEC)/12AWG(UL), 300mm+300mm(or customized)
Connectors	MC4 or MC4 Comparable
Standard Packaging	37/31pcs/pallet

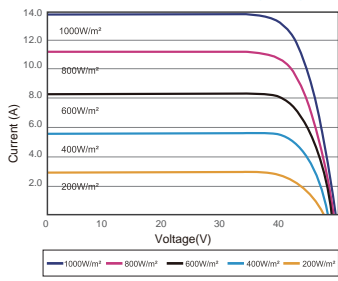
TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature(NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.30%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V(IEC)/1500V(UL)
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

PACKAGING CONFIGURATION

Number of modules per container	740/620 pcs/40HQ
Package	37/31 pcs/pallet
Package Number	20 pallets

I-V CURVES OF PV MODULE(590W)



P-V CURVES OF PV MODULE(590W)

