



RT81-M

144 Cells

Mono TOPCON 210*182mm, 14/16 BB

425-460W

Power Output

23.02%

The Highest Efficiency

0~+5W

Tolerance

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RT81-M TOPCON

RT81-M 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.



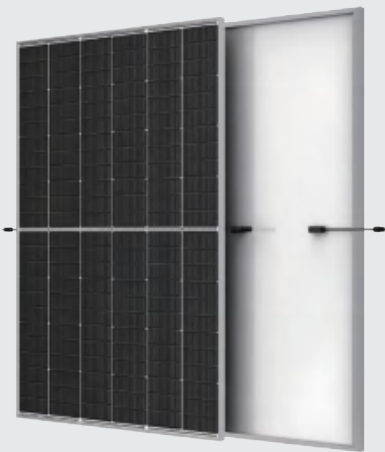
Low-Light Performance

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

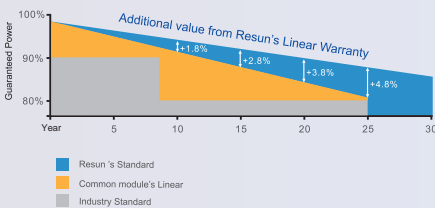


High Mechanical Strength

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



0.5% Annual Degradation over 30 years



15 Year Product Warranty

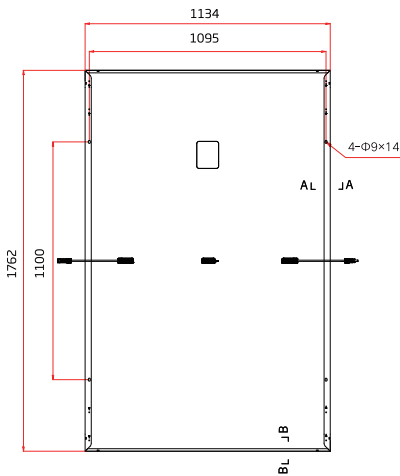
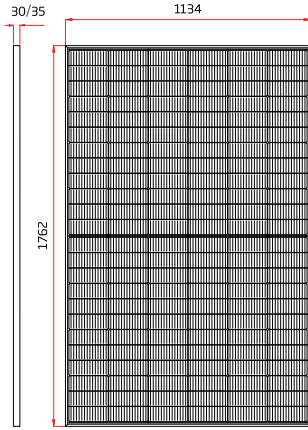
30 Year Linear Power Warranty

Full range of products and certification systems

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



Dimension of PV Modules Unit: mm



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	425	430	435	440	445	450	455	460
Open Circuit Voltage-Voc(V)	51.20	51.50	51.80	52.10	52.40	52.70	53.00	53.30
Short Circuit Current-Isc(A)	10.55	10.60	10.65	10.70	10.75	10.80	10.85	10.90
Maximum Power Voltage-Vmp(V)	43.11	43.40	43.68	43.97	44.25	44.53	44.80	45.07
Maximum Power Current-Imp(A)	9.86	9.91	9.96	10.01	10.06	10.11	10.16	10.21
Module Efficiency	21.27%	21.52%	21.77%	22.02%	22.27%	22.52%	22.77%	23.02%

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)	323	327	331	334	338	342	346	350
Open Circuit Voltage-Voc(V)	47.97	48.26	48.54	48.82	49.10	49.38	49.66	49.94
Short Circuit Current-Isc(A)	8.52	8.56	8.61	8.65	8.69	8.73	8.77	8.81
Maximum Power Voltage-Vmp(V)	40.44	40.71	40.97	41.24	41.51	41.77	42.02	42.28
Maximum Power Current-Imp(A)	7.99	8.03	8.07	8.11	8.15	8.19	8.23	8.27

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

MECHANICAL DATA

Solar Cells	Mono-crystalline TOPCON 210*182mm, 14/16 Bus bars
Cell Configuration	144cells(6*24)
Module Dimensions	1762*1134*35/30mm
Weight	22.3/21.7kg
Front Cover	3.2mm Tempered Glass
J-Box	IP68
Cable	4mm ² (IEC)/12AWG(UL), 300mm+300mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	31/36pcs/pallet

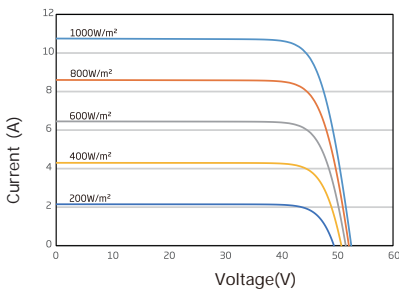
TEMPERATURE & MAXIMUM RATINGS

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 VoltageMax	1500V(IEC)/1500V(UL)
Series Fuse Rating	20A
Limiting Reverse Current	20A

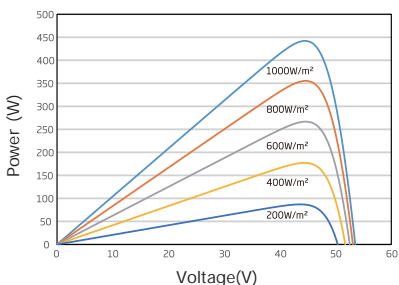
PACKAGING CONFIGURATION

	40 HQ
Number of modules per container	806/936 pcs
Package	31/36 pcs/pallet
Package Number	26 pallets
Package Weight	721/811 kg/pallet
Package Dimension	1790*1130*1270 mm/pallet

I-V CURVES OF PV MODULE(445 W)



P-V CURVES OF PV MODULE(445W)



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