

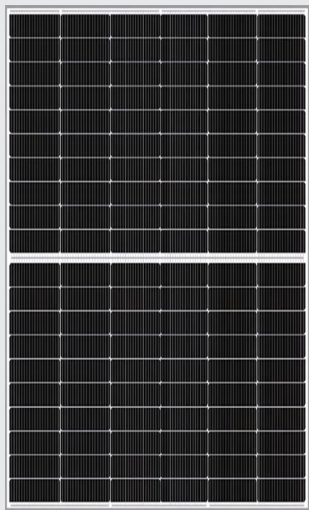
RT9K-M

120 Cells
Mono Half-Cell 18BB

620-650W
Power output

22.97%
The Highest Efficiency

0~+5W
Tolerance



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RT9K-M(TOPCON)

RT9KXXM 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-spotcrisis 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

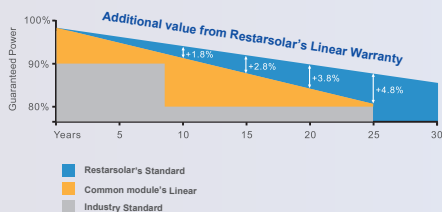
With high transmittance and anti-reflective 3.2mm tempered glass,the module has stronger performance under low light circumstances.



High Mechanical Strength

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

0.5% Annual Degradation over 30 years



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

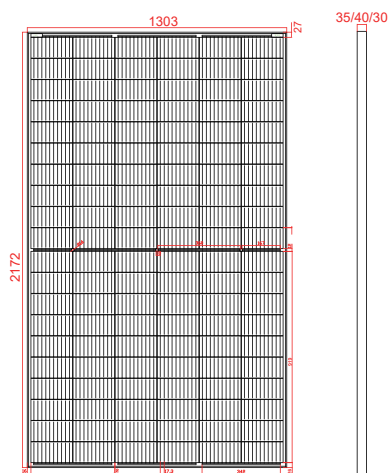
30 Year Linear Power Warranty

Full range of products and certification systems

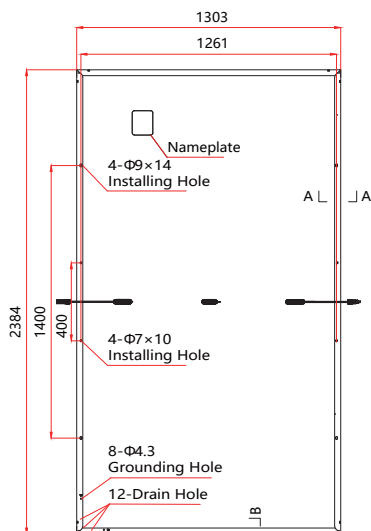
ISO 9001/14001 TUV PID-FREE CE IEC 61215/61730/61701/62716



Dimension of PV Modules Unit: mm

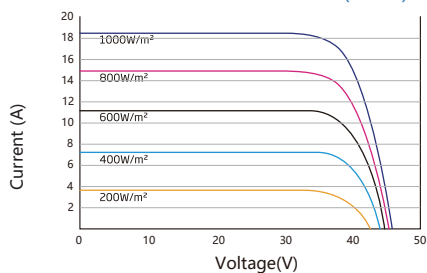


Front

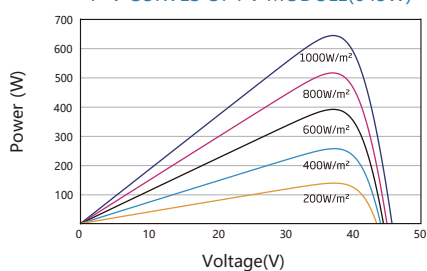


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I-V CURVES OF PV MODULE(645W)



P-V CURVES OF PV MODULE(645W)



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	620	625	630	635	640	645	650
Open Circuit Voltage-Voc(V)	43.20	43.50	43.90	44.20	44.50	44.80	45.10
Short Circuit Current-Isc(A)	18.18	18.21	18.24	18.27	18.30	18.33	18.36
Maximum Power Voltage-Vmp(V)	36.20	36.40	36.60	36.80	37.00	37.20	37.40
Maximum Power Current-Imp(A)	17.15	17.18	17.22	17.26	17.30	17.34	17.38
Module Efficiency(%)	21.91%	22.08%	22.26%	22.44%	22.61%	22.79%	22.97%

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)	473	478	482	486	490	494	498
Open Circuit Voltage-Voc (V)	40.90	41.20	41.60	41.90	42.10	42.40	42.70
Short Circuit Current-Isc(A)	14.65	14.68	14.70	14.73	14.75	14.77	14.80
Maximum Power Voltage-Vmp(V)	34.00	34.30	34.50	34.70	35.00	35.20	35.40
Maximum Power Current-Imp(A)	13.92	13.94	13.93	13.98	14.00	14.03	14.06

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

MECHANICAL DATA

Solar cells	Mono-crystalline 210*105mm, 18 Bus bars
Cell configuration	120cells(6*20)
Module dimensions	2172*1303*30mm/35mm/40mm
Weight	30.9kg/31.4kg/29.4kg
Front Cover	3.2mm Tempered Glass
J-BOX	IP68
Cable	4mm²(IEC)/12AWG(UL),300mm+300mm or customized
Connectors	MC4 or MC4 Comparable
Standard Packaging	36/31/27pcs/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	30A
Limiting Reverse Current	30A

PACKAGING CONFIGURATION

	40HQ
Number of modules per container	648/558/486pcs
Package	36/31/27pcs/pallet
Package Number	18pallets

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MADE IN CHINA