

RT8V-M-FB

108 Cells

Mono N-Type/Topcon MBB

415-435W

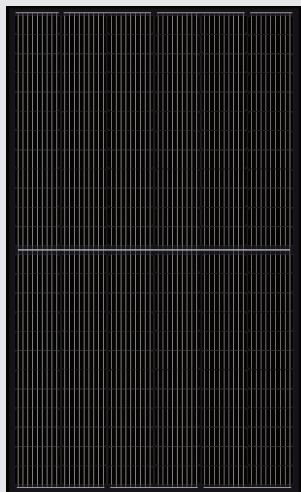
Power output

22.28%

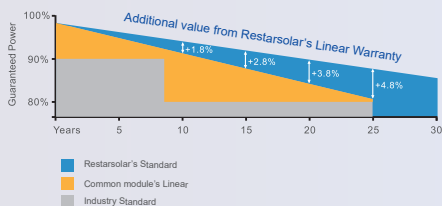
The Highest Efficiency

0~+5W

Tolerance



0.5% Annual Degradation over 30 years



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

30 Year Linear Power Warranty



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RT8V-M FULL BLACK

RT8V-M FULL BLACK 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. The full black design makes the module appearance outstanding and ideal for building installations.



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.



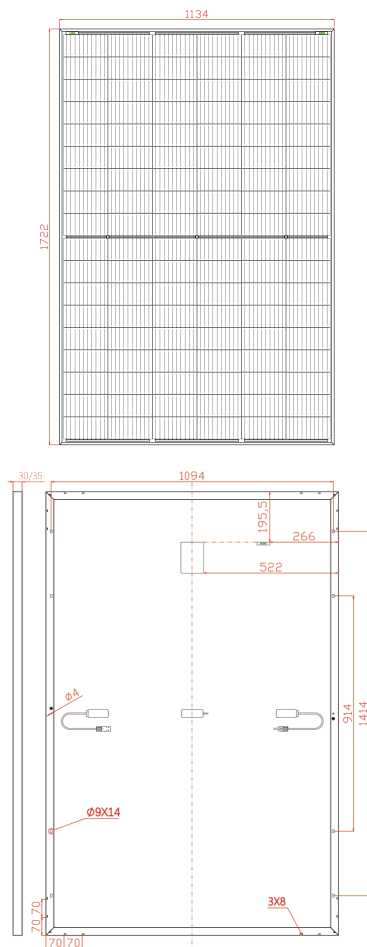
High Mechanical Strength

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

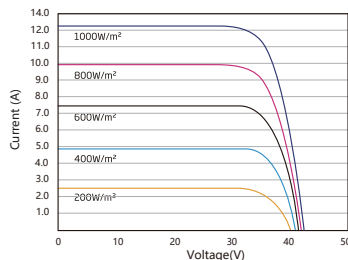
ISO 9001/14001 TUV PID-FREE CE IEC 61215/61730/61701/62716



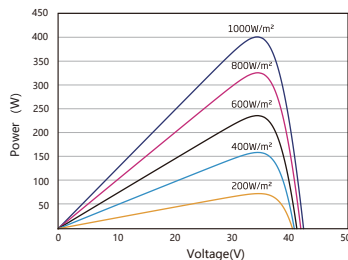
Dimension of PV Modules Unit: mm



I-V CURVES OF PV MODULE(400 W)



P-V CURVES OF PV MODULE(400W)



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	415W	420W	425W	430W	435W
Open Circuit Voltage-Voc(V)	37.45	37.58	37.71	37.84	37.97
Short Circuit Current-Isc(A)	14.02	14.11	14.19	14.27	14.35
Maximum Power Voltage-Vmp(V)	31.61	31.78	31.94	32.09	32.25
Maximum Power Current-Imp(A)	13.13	13.22	13.31	13.40	13.49
Module Efficiency(%)	21.25%	21.51%	21.76%	22.02%	22.28%

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)	314W	318W	322W	326W	330W
Open Circuit Voltage-Voc (V)	35.37	35.51	35.65	35.79	35.93
Short Circuit Current-Isc(A)	11.22	11.29	11.36	11.43	11.49
Maximum Power Voltage-Vmp(V)	29.89	30.11	30.32	30.49	30.66
Maximum Power Current-Imp(A)	10.50	10.56	10.62	10.69	10.76

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

MECHANICAL DATA

Solar Cells	Mono N-Type/Topcon 182*91mm MBB
Cell Configuration	108cells(6*18)
Module Dimensions	1722*1134*30mm/35mm
Weight	22kg
Front Cover	3.2mm Tempered Glass
J-Box	IP68, 3 diodes
Cable	4mm²(IEC)/12AWG(UL), 350mm(+)/450mm(-)(or customized)
Connectors	MC4 or MC4 Comparable
Standard Packaging	31pcs/pallet

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature(NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.35%/°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	806/936pcs
Package	31/36pcs/pallet
Package Number	26pallets