

RT8V-M

108 Cells

Mono-crystalline 9-11BB

400-425W

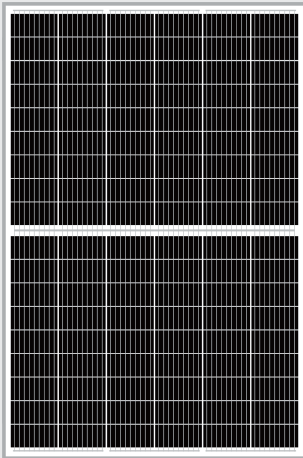
Power output

21.75%

The Highest Efficiency

+/- 3%

Isc, Voc, Pmax Tolerance



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RT8V-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

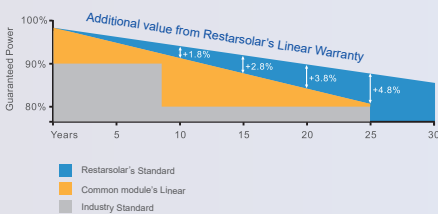
With high transmittance and anti-reflective 3.2mm tempered glass, the module has stronger performance under low light circumstances.



High Mechanical Strength

Designed load: positive 3600Pa, negative 1600Pa safety factor for both sides: 1.5

0.5% Annual Degradation over 30 years



Full range of products and certification systems

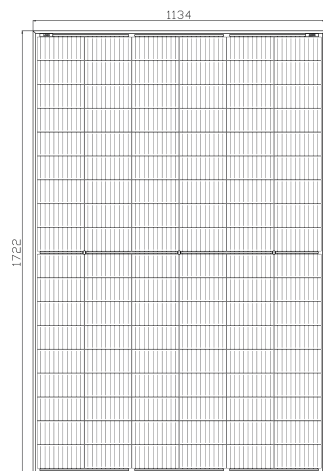
ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716



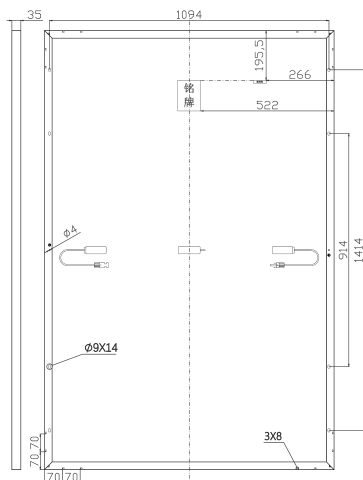
LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty/ 30 year Linear Power Warranty

Dimension of PV Modules Unit : mm

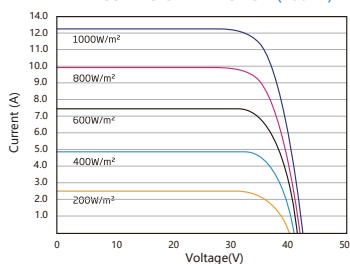


Front View

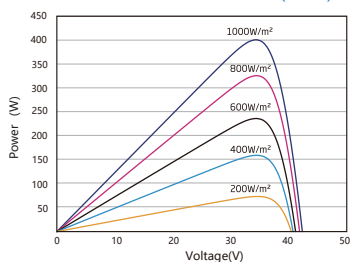


Back View

I-V CURVES OF PV MODULE(400W)



P-V CURVES OF PV MODULE(400W)



ELECTRICAL DATA(STC)

Photovoltaic module model	RT8V400M	RT8V405M	RT8V410M	RT8V415M	RT8V420M	RT8V425M
Rated Power in Watts-Pmax(Wp)	400	405	410	415	420	425
Open Circuit Voltage-Voc(V)	37.07	37.23	37.32	37.45	37.58	37.71
Short Circuit Current-Isc(A)	13.79	13.87	13.95	14.02	14.11	14.19
Maximum Power Voltage-Vmp(V)	31.01	31.21	31.45	31.61	31.78	31.94
Maximum Power Current-Imp(A)	12.90	12.98	13.04	13.13	13.22	13.31
Module Efficiency(%)	20.48%	20.74%	21.00%	21.25%	21.50%	21.75%

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)	302W	306W	310W	314W	318W	322W
Open Circuit Voltage-Voc(V)	34.88	35.12	35.23	35.37	35.51	35.65
Short Circuit Current-Isc(A)	11.03	11.10	11.16	11.22	11.28	11.34
Maximum Power Voltage-Vmp(V)	29.26	29.47	29.72	29.89	30.06	30.23
Maximum Power Current-Imp(A)	10.32	10.38	10.43	10.5	10.56	10.62

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

MECHANICAL DATA

Solar Cells	Mono-crystalline 182*91mm, 9/10/11 Bus bars
Cell Configuration	108cells(6*18)
Module Dimensions	1722*1134*35mm
Weight	22kg
Front Cover	3.2mm Tempered Glass
J-Box	IP68,3 diodes
Cable	4mm ² (IEC)/12AWG(UL),350mm(+)/450mm(-) or customized
Connectors	MC4 or MC4 Comparable

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~+70 °C
Maximum System Voltage	1500V(IEC)/1500V
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

PACKING DETAILS

Loading Capacity	806pcs/40HQ
Packing Manner	31pcs/pallet
Package Number	26pallets