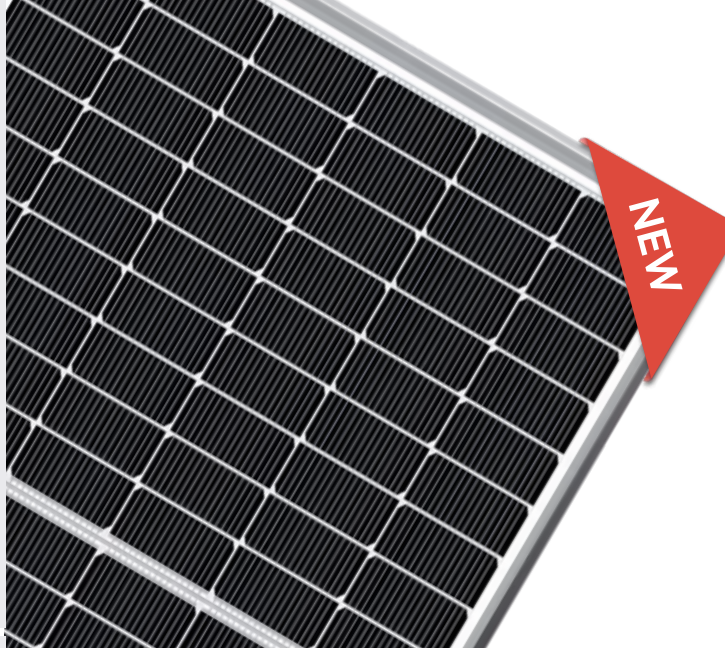
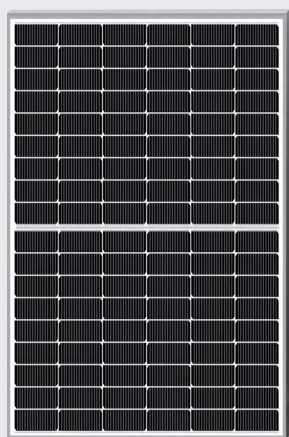




RESUN SOLAR ENERGY CO.,LTD.



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108Cells

Mono N-type/Topcon 16 BB

390-450W

Power Output

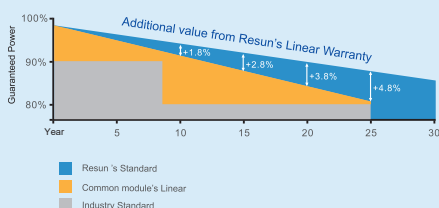
23.04%

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

RS8V-M TOPCON

RS8V-M 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

SMBB 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

SMBB 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).

Full range of products and certification systems

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

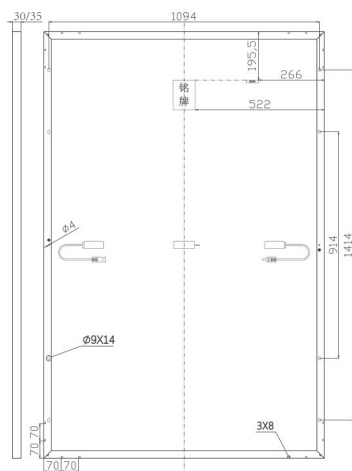
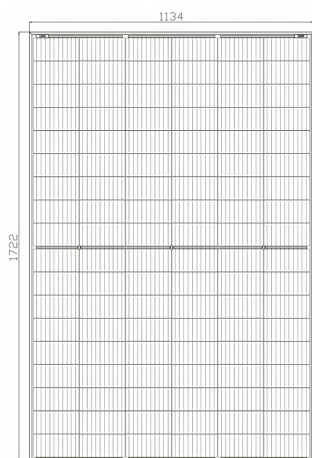


RS8V-M

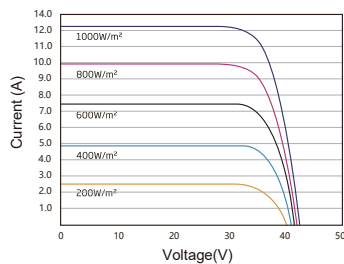


GLOBAL PROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

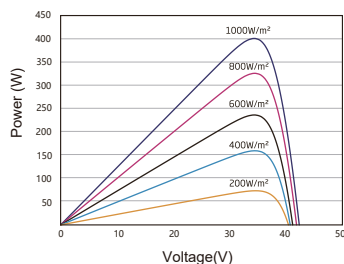
Dimension of PV Modules Unit: mm



I-V CURVES OF PV MODULE(420W)



P-V CURVES OF PV MODULE(420W)



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	390	395	400	405	410	415	420	425	430	435	440	445	450
Open Circuit Voltage-Voc(V)	36.85	36.98	37.07	37.23	37.32	37.45	37.58	37.71	37.84	37.97	38.1	38.24	38.37
Short Circuit Current-Isc(A)	13.61	13.70	13.79	13.87	13.95	14.02	14.11	14.19	14.27	14.35	14.43	14.51	14.59
Maximum Power Voltage-Vmp(V)	30.64	30.84	31.01	31.21	31.45	31.61	31.78	31.94	32.09	32.25	32.41	32.58	32.73
Maximum Power Current-Imp(A)	12.73	12.81	12.90	12.98	13.04	13.13	13.22	13.31	13.40	13.49	13.58	13.66	13.75
Module Efficiency	19.97%	20.23%	20.48%	20.74%	21.00%	21.25%	21.51%	21.76%	22.02%	22.28%	22.53%	22.79%	23.04%

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)	294	298	302	306	310	314	318	322	326	330	334	338	342
Open Circuit Voltage-Voc (V)	34.62	34.75	34.88	35.12	35.23	35.37	35.51	35.65	35.79	35.93	36.07	36.21	36.35
Short Circuit Current-Isc(A)	10.89	10.96	11.03	11.10	11.16	11.22	11.29	11.36	11.43	11.49	11.56	11.63	11.70
Maximum Power Voltage-Vmp(V)	28.87	29.08	29.26	29.47	29.72	29.89	30.11	30.32	30.49	30.66	30.84	31.04	31.20
Maximum Power Current-Imp(A)	10.18	10.25	10.32	10.38	10.43	10.50	10.56	10.62	10.69	10.76	10.83	10.89	10.96

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

MECHANICAL DATA

Solar cells	Mono-crystalline 182*91mm, 9/16 Bus bars
Cell configuration	108cells(6*18)
Module dimensions	1722*1134*30/35mm
Weight	21.5/22kg
Front Cover	3.2mm Tempered Glass
J-BOX	IP68, 3 Diodes
Cable	4mm ² (IEC)/12AWG(UL), 300mm+300mm(or customized)
Connectors	MC4 or MC4 Comparable

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	936/806 pcs/40HQ
Package	36/31 pcs/pallet
Package Number	26 pallets

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