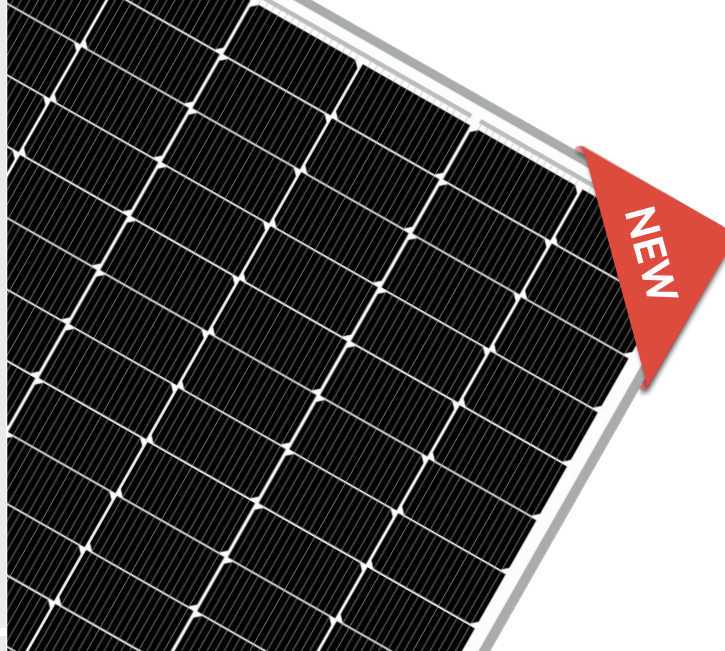




RESUN SOLAR ENERGY CO.,LTD.



WWW.RESUNSOLAR.COM



132 Cells

Mono N-type/Topcon MBB

645-720W

Power Output

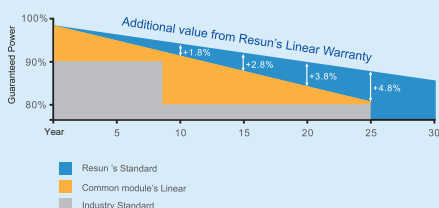
23.18%

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

RS9H-M TOPCON

RS9H-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

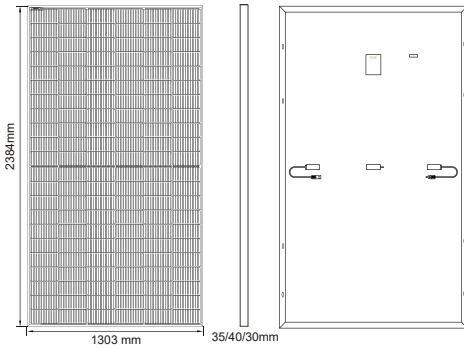


RS9H-M

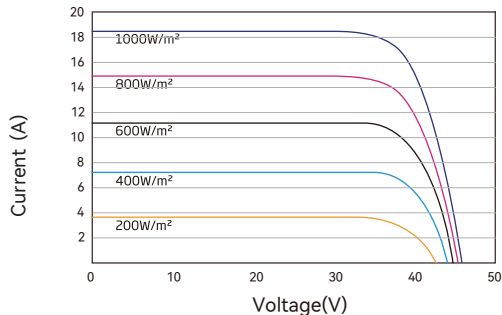


GLOBAL PROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

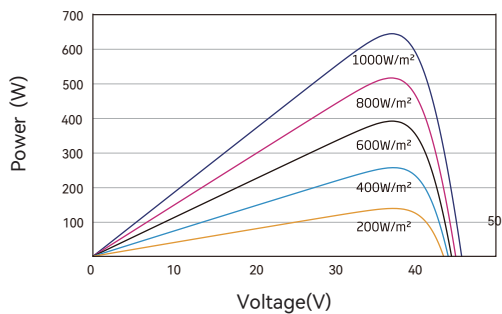
Dimension of PV Modules Unit: mm



I-V CURVES OF PV MODULE(675 W)



P-V CURVES OF PV MODULE(675W)



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720
Open Circuit Voltage-Voc(V)	45.10	45.30	45.50	45.70	45.90	46.10	46.30	46.50	46.70	46.90	47.10	47.30	48.80	49.00	49.20	49.40
Short Circuit Current-Isc(A)	18.39	18.44	18.48	18.53	18.57	18.62	18.67	18.72	18.77	18.82	18.87	18.92	18.36	18.40	18.44	18.49
Maximum Power Voltage-Vmp(V)	37.20	37.40	37.60	37.80	38.00	38.20	38.40	38.60	38.80	39.00	39.20	39.40	40.70	40.90	41.10	41.30
Maximum Power Current-Imp(A)	17.34	17.38	17.42	17.46	17.50	17.54	17.58	17.62	17.66	17.70	17.73	17.77	17.33	17.36	17.40	17.44
Module Efficiency	20.76%	20.92%	21.09%	21.25%	21.41%	21.57%	21.73%	21.89%	22.05%	22.21%	22.37%	22.53%	22.70%	22.86%	23.02%	23.18%

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)	488	492	496	500	504	508	512	516	520	524	528	534	538	542	546	550
Open Circuit Voltage-Voc (V)	42.50	42.70	42.90	43.00	43.20	43.40	43.60	43.80	44.00	44.20	44.40	45.93	46.12	46.31	46.49	46.68
Short Circuit Current-Isc(A)	14.81	14.85	14.88	14.92	14.96	15.01	15.05	15.09	15.14	15.19	15.24	14.79	14.83	14.87	14.90	14.94
Maximum Power Voltage-Vmp(V)	34.80	34.90	35.10	35.30	35.40	35.50	35.80	36.00	36.20	36.40	36.60	38.07	38.26	38.45	38.63	38.82
Maximum Power Current-Imp(A)	14.05	14.09	14.13	14.17	14.22	14.26	14.30	14.34	14.37	14.40	14.43	14.02	14.06	14.10	14.13	14.17

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

MECHANICAL DATA

Solar cells	Mono-crystalline 210*105mm, 18/Busbars
Cell configuration	132cells(6*22)
Module dimensions	2384*1303*30mm/35mm/40mm
Weight	32.3kg/33.6kg/34.2Kg
Front Cover	3.2mm Tempered Glass
J-BOX	IP68
Cable	4mm²(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	30A
Limiting Reverse Current	30A

PACKAGING CONFIGURATION

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

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