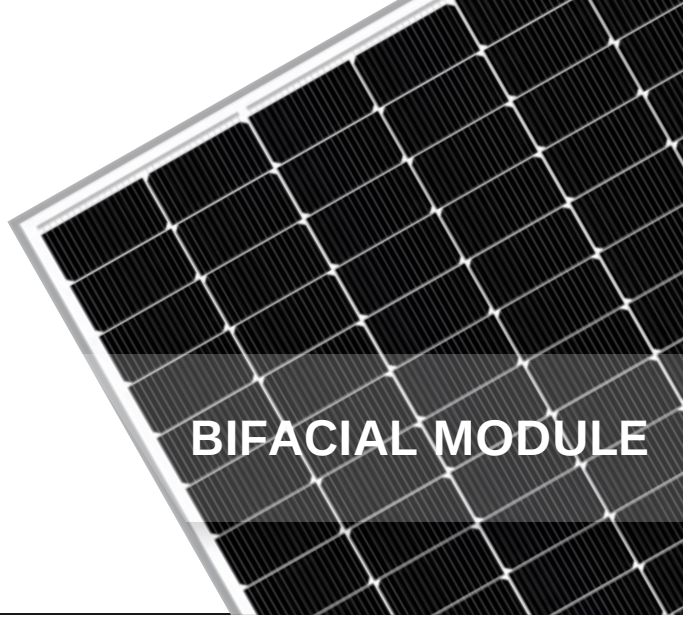
Quality Maker®
Restarsolar, power the life

GLOBALPROFESSIONAL PVPRODUCTS INTEGRATED SOLUTIONS SUPPLIER



BIFACIAL MODULE

WWW.RESTARSOLAR.COM

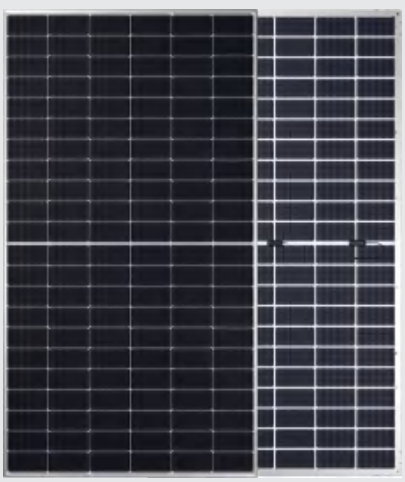
RT9H-M-BD

132 Cells
Mono N-Type/Topcon 18 BB

670-700W
Power output

22.53%
The Highest Efficiency

0~+5W
Tolerance



RT9H-M-BD

RT9H-M-BD 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
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.

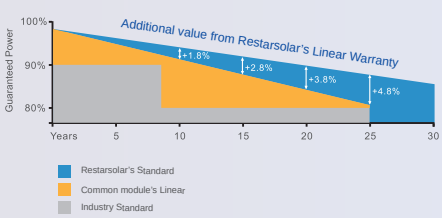
Durability Against Extreme Conditions
Certified to resist high salt mist and ammonia conditions.

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

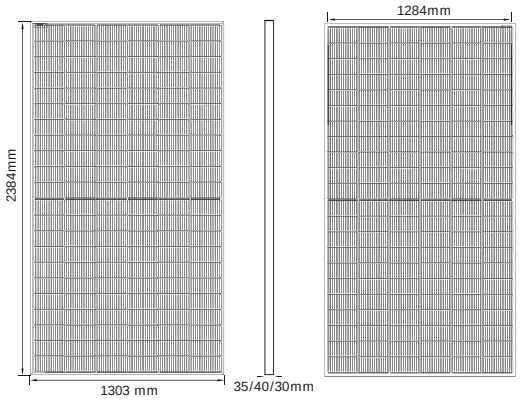
Quality Maker®
Restarsolar, power the life

RT9H-M-BD

WWW.RESTARSOLAR.COM

GLOBALPROFESSIONAL PVPRODUCTS INTEGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	675	680	685	690	695	700
Open Circuit Voltage-Voc(V)	46.30	46.50	46.70	46.90	47.10	47.30
Short Circuit Current-Isc(A)	18.67	18.72	18.77	18.82	18.87	18.92
Maximum Power Voltage-Vmp(V)	38.40	38.60	38.80	39.00	39.20	39.40
Maximum Power Current-Imp(A)	17.58	17.62	17.66	17.70	17.74	17.78
Module Efficiency	21.73%	21.89%	22.05%	22.21%	22.37%	22.53%

STC: Irradiance 1000 W/m², Cell Temperature 25°C,Air Mass AM1.5 according to EN 60904-3.

ELECTRICAL DATA(NOCT)

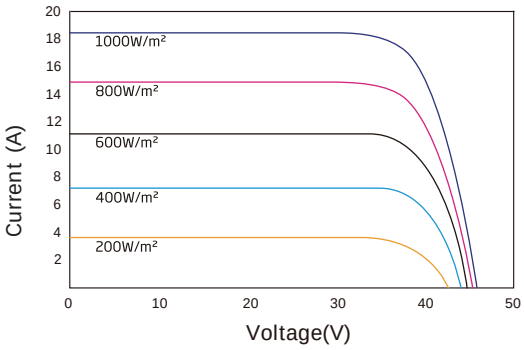
Maximum Power-Pmax(Wp)	512	516	520	524	528	532
Open Circuit Voltage-Voc (V)	43.60	43.80	44.00	44.20	44.40	44.60
Short Circuit Current-Isc(A)	15.05	15.09	15.14	15.19	15.24	15.28
Maximum Power Voltage-Vmp(V)	35.80	36.00	36.20	36.40	36.60	36.80
Maximum Power Current-Imp(A)	14.30	14.34	14.37	14.40	14.44	14.47

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

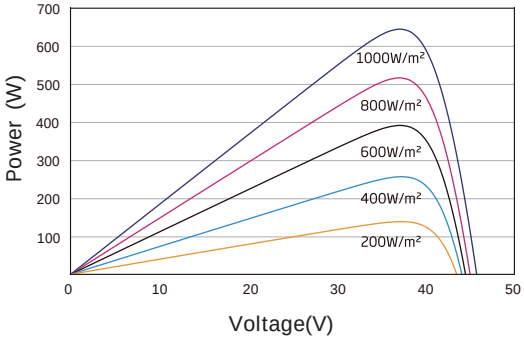
BIFACIAL OUTPUT-REARSIDE POWER GAIN

5%	Maximum Power(pmax)	709	714	719	724	729	734
	Module Efficiency STC(%)	22.82%	22.99%	23.15%	23.31%	23.47%	23.63%
15%	Maximum Power(pmax)	776	782	788	794	800	806
	Module Efficiency STC(%)	24.98%	25.17%	25.37%	25.56%	25.75%	25.95%
25%	Maximum Power(pmax)	844	850	856	862	868	874
	Module Efficiency STC(%)	27.17%	27.36%	27.56%	27.75%	27.94%	28.14%

I-V CURVES OF PV MODULE(675 W)



P-V CURVES OF PV MODULE(675W)



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
Standard Packaging	27/31/36pcs/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	35A
Limiting Reverse Current	35A

PACKAGING CONFIGURATION

	40HQ
Number of modules per container	486/558/648pcs
Package	27/31/36pcs/pallet
Package Number	18pallets
Package Weight	944/1062/1180kg/pallet
Package Dimension	1325*1130*2520mm/pallet

Add: No: 30 Yongshun Road, Zhulin Town,
Jintan District, Changzhou, Jiangsu Province, China

E-mail: sales@restarsolar.com

Web: www.restarsolar.com