



**BIFACIAL MODULE WITH
TRANSPARENT SHEET**

WWW.RESTARSOLAR.COM

RT9H-M-BD

132 Cells

Bifacial Mono 10/12BB

660-670W

Power output

21.57%

The Highest Efficiency

0 ~ +5W

Tolerance

RT9H-M-BD

RS9H-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.

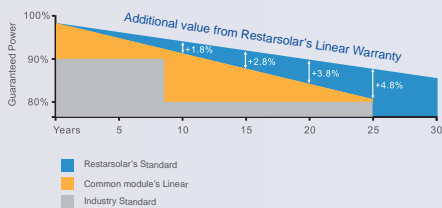


High Mechanical Strength

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

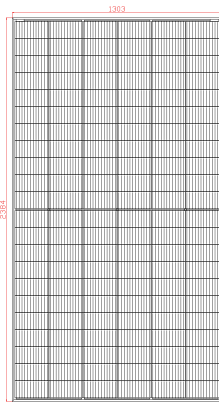
30 Year Linear Power Warranty

Full range of products and certification systems

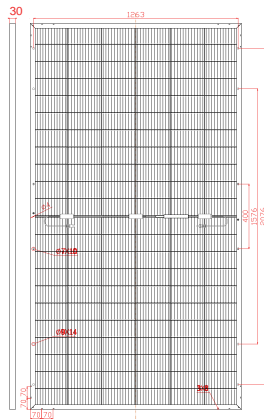
ISO 9001/14001 TUV PID-FREE CE IEC 61215/61730/61701/62716



Dimension of PV Modules Unit: mm

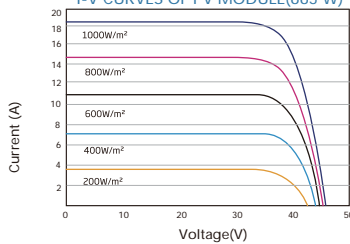


Front View

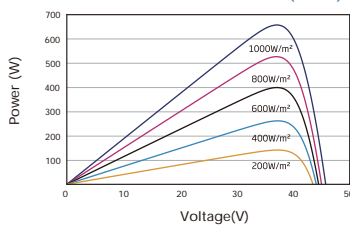


Back View

I-V CURVES OF PV MODULE(665 W)



P-V CURVES OF PV MODULE(665W)



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	660W	665W	670W
Open Circuit Voltage-Voc(V)	45.70	45.90	46.10
Short Circuit Current-Isc(A)	18.53	18.57	18.62
Maximum Power Voltage-Vmp(V)	37.80	38.00	38.20
Maximum Power Current-Imp(A)	17.46	17.50	17.54
Module Efficiency(%)	21.3%	21.4%	21.57%

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)	500	504	508
Open Circuit Voltage-Voc (V)	43.00	43.20	43.40
Short Circuit Current-Isc(A)	14.92	14.96	15.00
Maximum Power Voltage-Vmp(V)	35.30	35.40	35.50
Maximum Power Current-Imp(A)	14.17	14.22	14.26

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

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power(pmax)	693W	698W	704W
	Module Efficiency STC(%)	22.31%	22.48%	22.65%
15%	Maximum Power(pmax)	759W	765W	771W
	Module Efficiency STC(%)	24.43%	24.62%	24.80%
25%	Maximum Power(pmax)	825W	831W	838W
	Module Efficiency STC(%)	26.56%	26.76%	26.96%

MECHANICAL DATA

Solar Cells	Bifacial Mono-crystalline 210*105mm, 10/12 Bus bars
Cell Configuration	132cells(6*22)
Module Dimensions	2384*1303*30mm
Weight	32.3kg
Front Cover	3.2mm Tempered Glass
J-Box	IP68
Cable	4mm ² (IEC)/12AWG(UL), 300mm+300mm or customized
Connectors	MC4 or MC4 Comparable
Standard Packaging	36pcs/pallet

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature(NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.26%/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	30A
Limiting Reverse Current	30A

PACKAGING CONFIGURATION

	40HQ
Number of modules per container	648pcs
Package	36pcs/pallet
Package Number	18pallets