



BIFACIAL MODULE WITH DOUBLE GLASS

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RS8V-M-DG BLACK FRAME

RS8V-M-DG HALF-CELL series is produced with N-type Topcon high efficiency MBB 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.

108 Cells

N-type Topcon Mono 9/10/16BB

420-450W

Power output

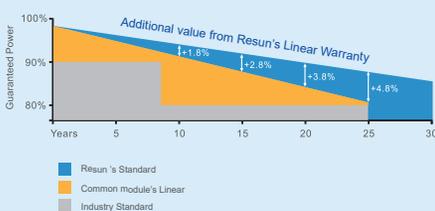
23.04%

The Highest Efficiency

0~+5W

Tolerance

0.5% Annual Degradation over 30 years



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).

Full range of products and certification systems

ISO9001 TUV PID-FREE CEIEC61215/61730/61701/62716



LINEAR PERFORMANCE WARRANTY

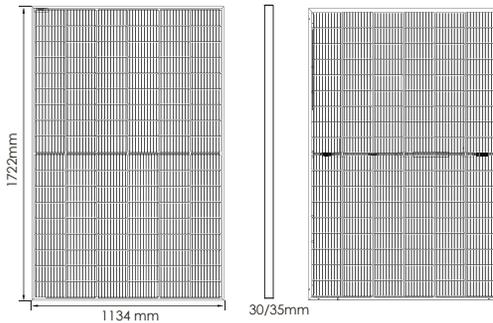
15 year Product Warranty
30 year Linear Power Warranty

RS8V-M-DG BLACK FRAME

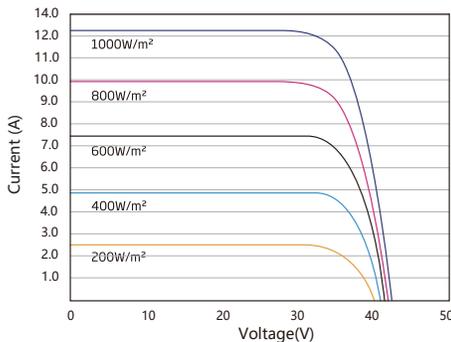


GLOBAL PROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

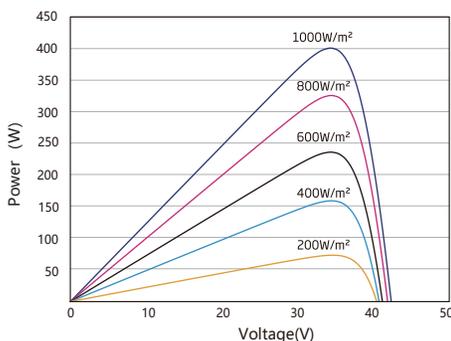
Dimension of PV Modules Unit: mm



I-V CURVES OF PV MODULE



P-V CURVES OF PV MODULE



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	420W	425W	430W	435W			
Open Circuit Voltage-Voc(V)	37.58	37.71	37.84	37.97			
Short Circuit Current-Isc(A)	14.11	14.19	14.27	14.35			
Maximum Power Voltage-Vmp(V)	31.78	31.94	32.09	32.25			
Maximum Power Current-Imp(A)	13.22	13.31	13.40	13.49			
Module Efficiency(%)	21.51%	21.76%	22.02%	22.28%			

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)	318	322	326	330			
Open Circuit Voltage-Voc (V)	35.51	35.65	35.79	35.93			
Short Circuit Current-Isc(A)	11.29	11.36	11.43	11.49			
Maximum Power Voltage-Vmp(V)	30.11	30.32	30.49	30.66			
Maximum Power Current-Imp(A)	10.56	10.62	10.69	10.76			

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

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power(pmax)	441	446	452	457		
	Module Efficiency STC(%)	22.6%	22.9%	23.1%	23.4%		
15%	Maximum Power(pmax)	483	489	495	500		
	Module Efficiency STC(%)	24.7%	25.0%	25.3%	25.6%		
25%	Maximum Power(pmax)	525	531	538	544		
	Module Efficiency STC(%)	26.9%	27.2%	27.5%	27.8%		

MECHANICAL DATA

Solar Cells	Mono-crystalline 182*91mm,9/10/16 Bus bars
Cell Configuration	108cells(6*18)
Module Dimensions	1722*1134*30mm/35mm
Weight	23.8kg/24.2kg
Front Cover	2.0+2.0mm Tempered Glass
J-Box	IP68
Cable	4mm ² (IEC)/12AWG(UL),350mm+450mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	36/31pcs/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	30A
Limiting Reverse Current	30A

PACKAGING CONFIGURATION

	40HQ
Number of modules per container	936/806pcs
Package	36/31pcs/pallet
Package Number	26pallets
Package Weight	887/781kg/pallet
Package Dimension	1750*1130*1270mm/pallet

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