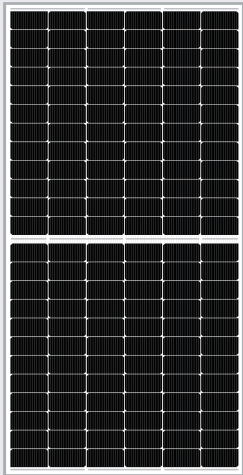


BIFACIAL MODULE WITH DOUBLE GLASS

WWW.RESUNSOLAR.COM



144 Cells

N-type Topcon Mono 16 Bus bars

565-590W

Power output

22.84%

The Highest Efficiency

± 3%

Tolerance

RS81-M-BD

RS81-M-BD 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.



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.



High Mechanical Strength

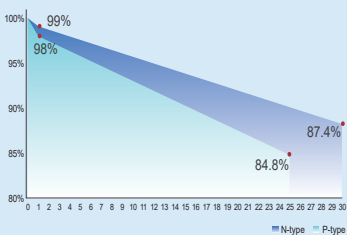
Certified to withstand: high wind load(2400Pa) and snow load(5400Pa).



Low-Light Performance

With high transmittance and anti-reflective 3.2mm tempered glass, the module has stronger performance under low light circumstances.

First year attenuation ≤ 1%
Linear attenuation from year 2 to year 30 ≤ 0.4%



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

30 Year Linear Power Warranty

Full range of products and certification systems

ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716

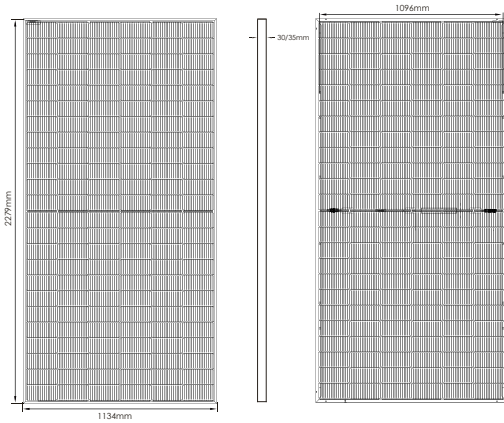


RS8I-M-BD



GLOBAL PROFESSIONAL INTEGRATED SOLAR SYSTEM SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	565W	570W	575W	580W	585W	590W
Open Circuit Voltage-Voc(V)	50.20	50.35	50.50	50.65	50.80	50.95
Short Circuit Current-Isc(A)	14.14	14.21	14.28	14.35	14.42	14.49
Maximum Power Voltage-Vmp(V)	42.26	42.42	42.57	42.72	42.87	43.01
Maximum Power Current-Imp(A)	13.37	13.44	13.51	13.58	13.65	13.72
Module Efficiency (%)	21.87%	22.07%	22.26%	22.45%	22.65%	22.84%

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

BI FACIAL OUTPUT-REARSIDE POWER GAIN

		593	599	604	609	614	620
5%	Maximum Power(pmax)	593	599	604	609	614	620
	Module Efficiency STC(%)	23.0%	23.2%	23.4%	23.6%	23.8%	24.0%
15%	Maximum Power(pmax)	650	656	661	667	673	679
	Module Efficiency STC(%)	25.1%	25.4%	25.6%	25.8%	26.0%	26.3%
25%	Maximum Power(pmax)	706	713	719	725	731	738
	Module Efficiency STC(%)	27.3%	27.6%	27.8%	28.1%	28.3%	28.5%

ELECTRICAL DATA (NMOT)

Maximum Power-Pmax (Wp)	428W	432W	436W	440W	444W	448W
Open Circuit Voltage-Voc (V)	46.98	47.11	47.33	47.46	47.59	47.72
Short Circuit Current-Isc (A)	11.28	11.32	11.36	11.40	11.44	11.48
Maximum Power Voltage-Vmp(V)	39.88	40.09	40.30	40.51	40.62	40.83
Maximum Power Current-Imp(A)	10.73	10.78	10.82	10.87	10.93	10.97

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

MECHANICAL DATA

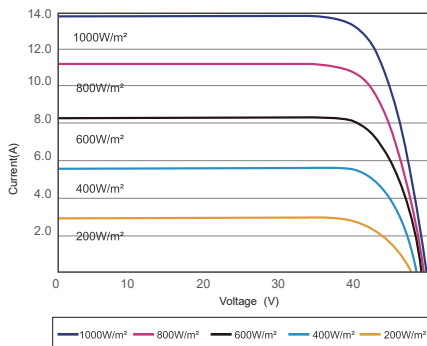
Solar Cells	N-type Topcon Mono 182*91mm,16 Bus bars
Cell Configuration	144cells(6*24)
Module Dimensions	2279*1134*35mm/30mm
Weight	32kg/31.5kg
Front Cover	2.0mm Tempered Glass
Back Cover	2.0mm Tempered Glass
J-Box	IP68,3 diodes
Cable	4mm ² (IEC)/12AWG(UL),350mm(+)/450mm(-) or customized
Connectors	MC4 or MC4 Comparable

TEMPERATURE & MAXIMUM RATINGS

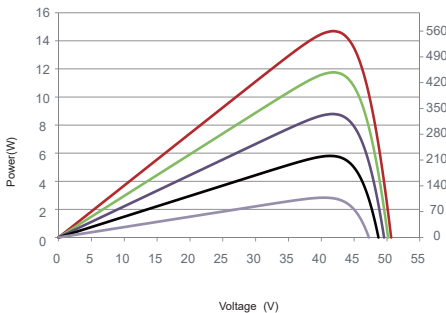
Nominal Operating Cell Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	- 0.25%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	- 0.30%/°C
Operational Temperature	- 40~+85°C
Maximum System Voltage	1500V(IEC)/1500V(UL)
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

PACKAGING CONFIGURATION

pcs/40HQ	620/720
pcs/pallet	31/36
pallets/40HQ	20
demension/pallet	2310*1130*1270mm



I-V CURVES OF PV MODULE(580W)



P-V CURVES OF PV MODULE(580W)

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