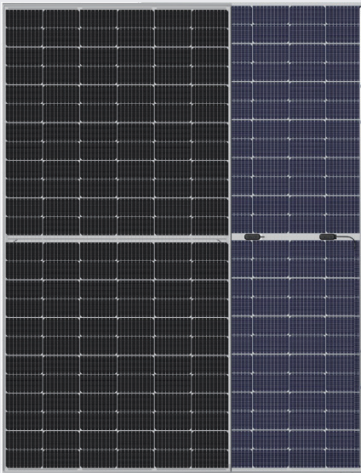


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## 144 Cells

Bifacial-monocrystalline 16BB

## 580-590W

Power output

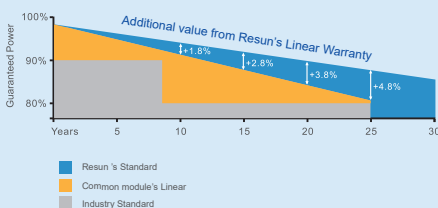
## 22.8%

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

# RS81-M-BD

**RS81-M-BD** 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 low 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).

## Full range of products and certification systems

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

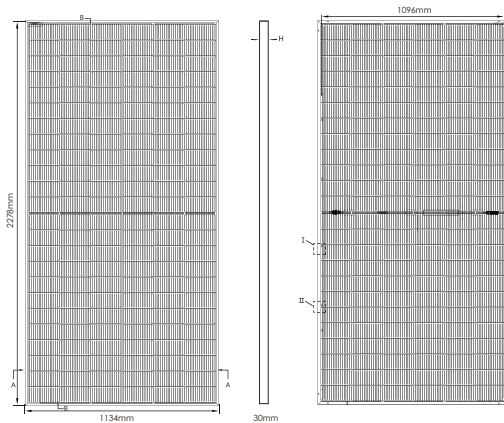


# RS8I-M-BD



GLOBAL PROFESSIONAL PV PRODUCTS INTERGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm



## ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	580W	585W	590W
Open Circuit Voltage-Voc(V)	50.65	50.80	50.95
Short Circuit Current-Isc(A)	14.35	14.42	14.49
Maximum Power Voltage-Vmp(V)	42.72	42.87	43.01
Maximum Power Current-Imp(A)	13.58	13.65	13.72
Module Efficiency (%)	22.5%	22.7%	22.8%

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power(pmax) Module Efficiency STC(%)	609W 23.60%	614W 23.80%	620W 24.00%
15%	Maximum Power(pmax) Module Efficiency STC(%)	667W 25.80%	673W 26.00%	679W 26.30%
25%	Maximum Power(pmax) Module Efficiency STC(%)	725W 28.10%	731W 28.30%	738W 28.50%

## ELECTRICAL DATA(NOCT)

Maximum Power-Pmax (Wp)	440	444	448
Open Circuit Voltage-Voc (V)	47.46	47.59	47.72
Short Circuit Current-Isc (A)	11.40	11.44	11.48
Maximum Power Voltage-Vmp(V)	40.51	40.62	40.83
Maximum Power Current-Imp(A)	10.87	10.93	10.97

NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

## MECHANICAL DATA

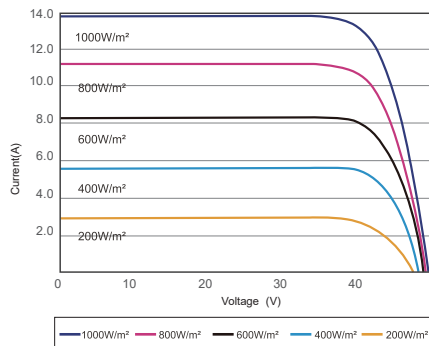
Solar Cells	Bifacial Mono-crystalline 182*91mm, 16BB
Cell Configuration	144cells(6*24)
Module Dimensions	2278*1134*30mm
Weight	27.2kg
Front Cover	3.2mm Tempered Glass
J-Box	IP68
Cable	4mm <sup>2</sup> (IEC)/12AWG(UL),350mm+450mm or customized length
Connectors	MC4 or MC4 Comparable

## TEMPERATURE & MAXIMUM RATINGS

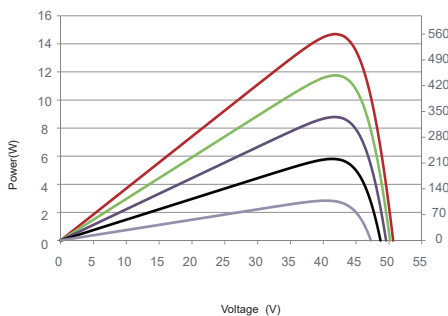
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficient of Voc	- 0.25%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	- 0.30%/°C
Operational Temperature	- 40~+85°C
Maximum System Voltage	1500V(IEC)/1500V(UL)
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

## PACKAGING CONFIGURATION

pcs/40HQ	740pcs
pcs/pallet	37pcs/pallet
pallets/40HQ	20pallets
demension/pallet	2310*1135*1270mm/pallet
weight/pallet	1045kg/pallet



I-V CURVES OF PV MODULE(580W)



P-V CURVES OF PV MODULE(580W)

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