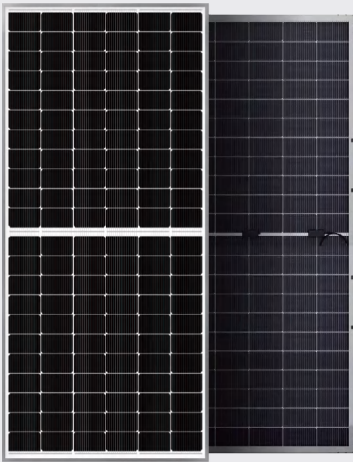


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## 132 Cells

Mono Topcon 182\*105mm 16 BB

## 595-630W

Power Output

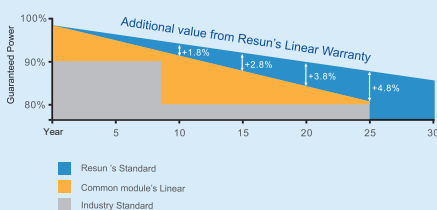
## 23.32%

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 TOPCON

RS81-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-spotcrisis caused by shadow effect.



### High Reliability

SMBB 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

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

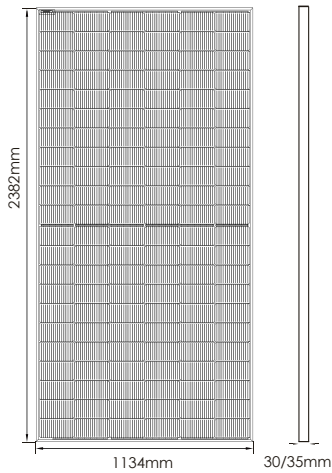


# RS8I-M-BD TOPCON

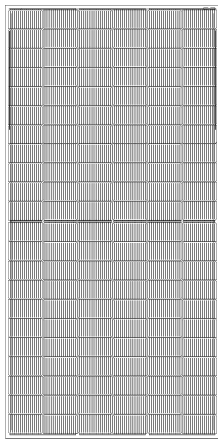


GLOBAL PROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm

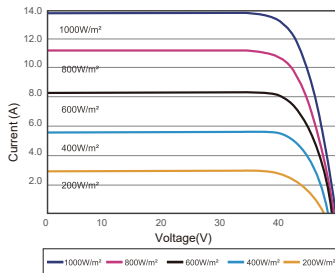


FRONT SIDE

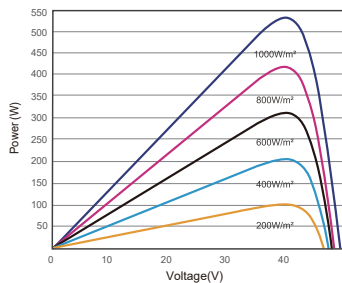


BACK

I-V CURVES OF PV MODULE(610W)



P-V CURVES OF PV MODULE(610W)



## ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	595	600	605	610	615	620	625	630
Open Circuit Voltage-Voc(V)	48.10	48.30	48.50	48.70	48.90	49.10	49.30	49.50
Short Circuit Current-Isc(A)	15.68	15.73	15.78	15.83	15.88	15.93	15.98	16.03
Maximum Power Voltage-Vmp(V)	40.18	40.38	40.58	40.78	40.98	41.17	41.37	41.56
Maximum Power Current-Imp(A)	14.81	14.86	14.91	14.96	15.01	15.06	15.11	15.16
Module Efficiency	22.03%	22.21%	22.40%	22.58%	22.77%	22.95%	23.14%	23.32%

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

## ELECTRICAL DATA(NOCT)

Maximum Power-Pmax(Wp)	453	457	461	465	469	473	477	481
Open Circuit Voltage-Voc (V)	45.07	45.26	45.44	45.63	45.82	46.01	46.19	46.38
Short Circuit Current-Isc(A)	12.67	12.71	12.75	12.79	12.83	12.87	12.91	12.95
Maximum Power Voltage-Vmp(V)	37.69	37.88	38.06	38.25	38.44	38.62	38.81	38.98
Maximum Power Current-Imp(A)	12.02	12.07	12.11	12.16	12.20	12.25	12.29	12.34

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

## INTEGRATED PWER @ STC (REFERENCE TO 10%)

Rated Power in Watts-Pmax(Wp)	654	660	665	671	676	682	688	693
Open Circuit Voltage-Voc(V)	48.10	48.30	48.50	48.70	48.90	49.10	49.30	49.50
Short Circuit Current-Isc(A)	17.24	17.30	17.35	17.41	17.46	17.52	17.58	17.64
Maximum Power Voltage-Vmp(V)	40.18	40.38	40.58	40.78	40.98	41.17	41.37	41.56
Maximum Power Current-Imp(A)	16.28	16.34	16.39	16.45	16.50	16.57	16.63	16.67
Module Efficiency(%)	24.21%	24.43%	24.62%	24.84%	25.03%	25.25%	25.47%	25.66%
BNPI/Isc(BSI)	19.21	19.27	19.33	19.39	19.45	19.51	19.58	19.64

## MECHANICAL DATA

Solar cells	Mono-crystalline 182*105mm, 16 Bus bars
Cell configuration	132 cells(6*22)
Module dimensions	2382*1134*35/30mm
Weight	29.1/28.3kg
Front Cover	3.2mm Tempered Glass
J-BOX	IP68
Cable	4mm <sup>2</sup> (IEC)/12AWG(UL),300mm+300mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	31/36 pcs/pallet

## TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature(NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40~+70°C
Maximum System Voltage	1500V(IEC)/1500V(UL)
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

	40HQ
Number of modules per container	620/720 pcs
Package	31/36 pcs/pallet
Package Number	20 pallets
Package Weight	947/1063 kg/pallet
Package Dimension	2394*1130*1270 mm/pallet

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