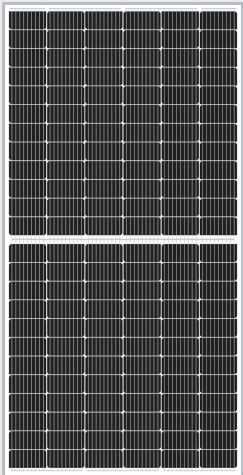


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**144 Cells**

Mono N-Type/Topcon 9/10/11 BB

**565-590W**

Power Output

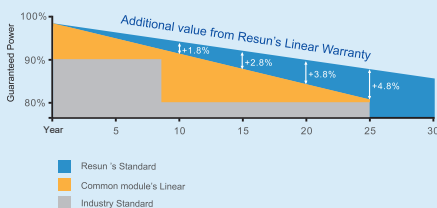
**22.84%**

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**

## RS8I-M (N-TYPE/TOPCON)

RS8I-M HALF-CELL series is produced with N-Type high efficiency SMBB 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

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

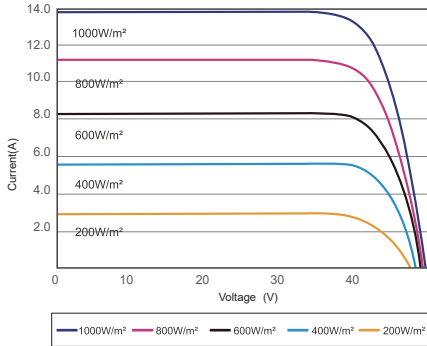
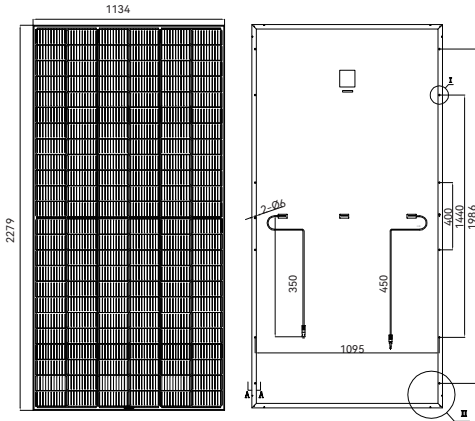


# RS81-M (N-TYPE/TOPCON)

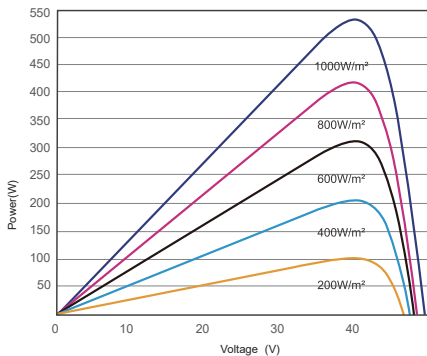


GLOBAL PROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm



I-V CURVES OF PV MODULE(550W)



P-V CURVES OF PV MODULE(550W)

## Electrical Data(STC)

|                               |        |        |        |        |        |        |
|-------------------------------|--------|--------|--------|--------|--------|--------|
| Rated Power In Watts-Pmax(Wp) | 565    | 570    | 575    | 580    | 585    | 590    |
| 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 1000W/m<sup>2</sup>, component temperature 25°C, Air Mass AM1.5 according to EN 60904-3

## Electrical Data(NOCT)

|                               |       |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|-------|
| Rated Power In Watts-Pmax(Wp) | 428   | 432   | 436   | 440   | 444   | 448   |
| 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 800W/m<sup>2</sup>, ambient temperature 20°C, Air Mass AM1.5, wind speed 1m/s

## Mechanical Data

|                    |   |
|--------------------|---|
| Solar Cells        | Mono N-type 182*91mm,9/10/11 BB   |
| Cell Configuration | 144cells(6*24)  |
| Module Dimensions  | 2279*1134*35mm/30mm   |
| Weight             | 28.6kg/27.2kg   |
| Front Cover        | 3.2mm Tempered Glass  |
| J-Box              | IP68,3 diodes   |
| Cable              | 4mm <sup>2</sup> (IEC)/12AWG(UL),350mm(+)/450mm(-) or customized length |
| Connectors         | MC4 or MC4 Compatible   |

## Temperature & Maximum ratings

|  |                      |
|--|----------------------|
| Nominal Operating Cell Temperature(NOCT) | 45°C±2°C             |
| Temperature Coefficient of Voc           | -0.26%/°C            |
| Temperature Coefficient of Isc           | 0.048%/°C            |
| Temperature Coefficient of Pmax          | -0.32%/°C            |
| Operational Temperature                  | -40~+85°C            |
| Maximum System Voltage                   | 1500V(IEC)/1500V(UL) |
| Max Series Fuse Rating                   | 25A                  |
| Limiting Reverse Current                 | 25A                  |

## Packaging Configuration

|                                 |                         |
|---------------------------------|-------------------------|
|                                 | 40HQ                    |
| Number of modules per container | 620/720pcs              |
| Package                         | 31/36pcs/pallet         |
| Package Number                  | 20pallets               |
| Package Dimension               | 2310*1130*1270mm/pallet |

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