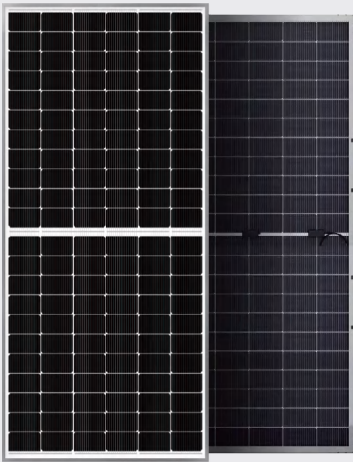


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132 Cells

Mono Topcon 182*105mm 16 BB

595-630W

Power Output

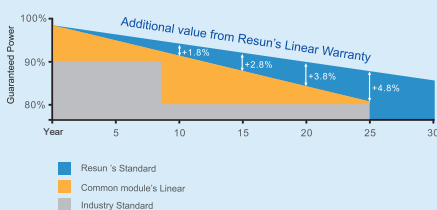
23.32%

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

RS8H-M-BD TOPCON

RS8H-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

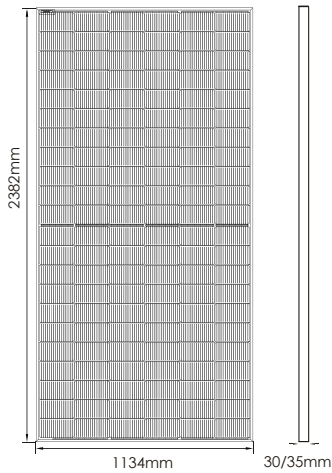


RS8H-M-BD TOPCON

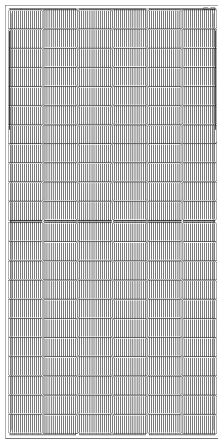


GLOBAL PROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm

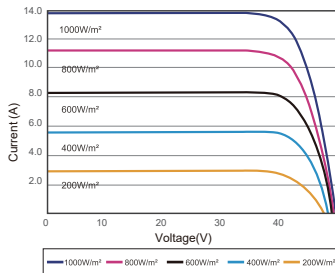


FRONT SIDE

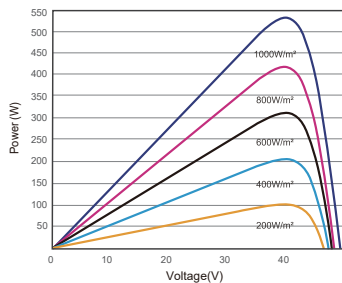


BACK

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/m², 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/m², 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 ² (IEC)/12AWG(UL),300mm+300mm |
| Connectors | MC4 or MC4 Comparable |
| Standard Packaging | 31/37pcs/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 | 620/740 pcs |
| Package | 31/37pcs/pallet |
| Package Number | 20 pallets |
| Package Weight | 947/1091kg/pallet |
| Package Dimension | 2394*1130*1270 mm/pallet |

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