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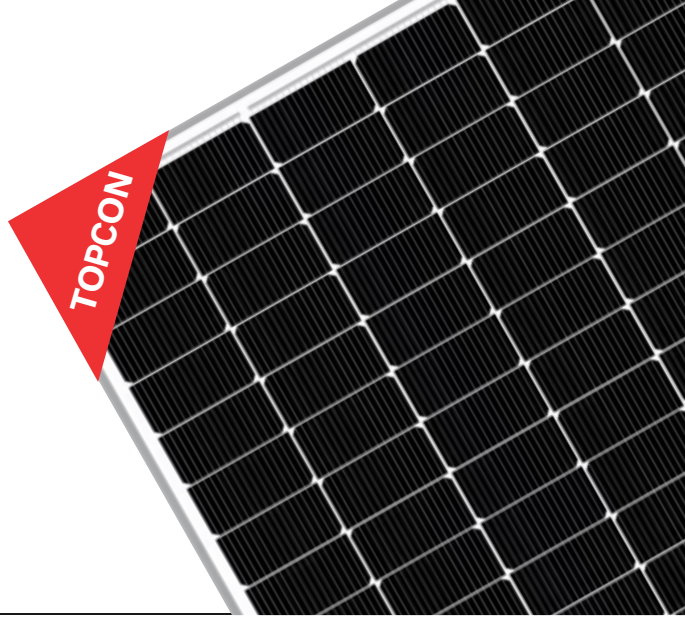
GLOBALPROFESSIONAL PVPRODUCTS INTEGRATED SOLUTIONS SUPPLIER

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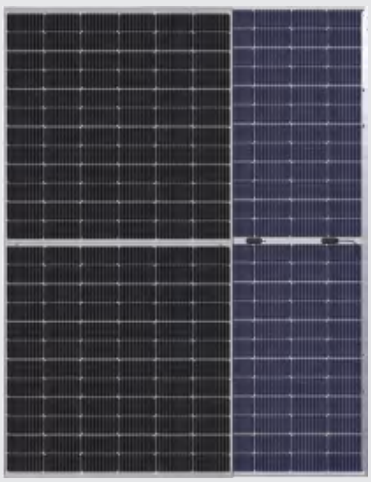
# RT8I-M-BD

**144 Cells**
Mono N-Type/Topcon 16 BB

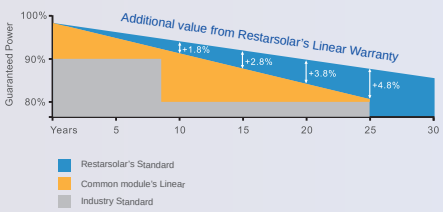
**540-560W**
Power output

**21.67%**
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

# RT8I-M-BD

**RT8I-M-BD TOPCON/N-TYPE** 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-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).

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

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# RT8I-M-BD (N-TYPE/TOPCON)

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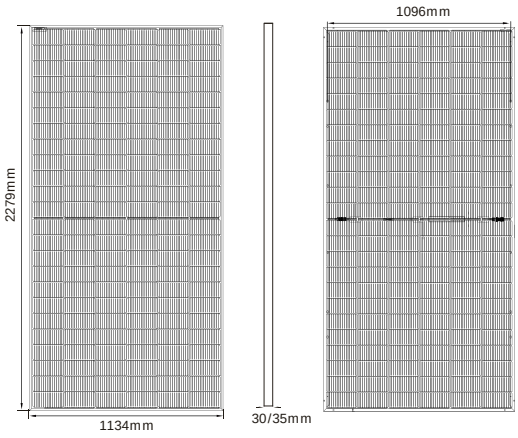
**Dimension of PV Modules** Unit: mm




## ELECTRICAL DATA(STC)

| | | | | | |
|---|---|---|---|---|---|
| **Rated Power in Watts-Pmax(Wp)** | 540 | 545 | 550 | 555 | 560 |
| **Open Circuit Voltage-Voc(V)** | 49.60 | 49.75 | 49.90 | 49.98 | 50.05 |
| **Short Circuit Current-Isc(A)** | 13.86 | 13.93 | 14.00 | 14.03 | 14.07 |
| **Maximum Power Voltage-Vmp(V)** | 41.64 | 41.80 | 41.96 | 42.06 | 42.12 |
| **Maximum Power Current-Imp(A)** | 12.97 | 13.04 | 13.11 | 13.19 | 13.30 |
| **Module Efficiency** | 20.89% | 21.09% | 21.28% | 21.48% | 21.67% |

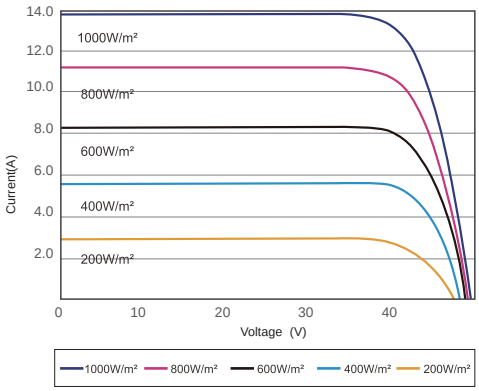
STC: Irradiance 1000 W/m², Cell Temperature 25°C,Air Mass AM1.5 according to EN 60904-3.

## ELECTRICAL DATA(NOCT)

| | | | | | |
|---|---|---|---|---|---|
| **Maximum Power-Pmax(Wp)** | 408 | 412 | 416 | 420 | 424 |
| **Open Circuit Voltage-Voc (V)** | 46.43 | 46.55 | 46.68 | 46.78 | 46.85 |
| **Short Circuit Current-Isc(A)** | 11.09 | 11.13 | 11.17 | 11.20 | 11.24 |
| **Maximum Power Voltage-Vmp(V)** | 38.99 | 39.2 | 39.43 | 39.62 | 39.67 |
| **Maximum Power Current-Imp(A)** | 10.47 | 10.51 | 10.55 | 10.60 | 10.69 |

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

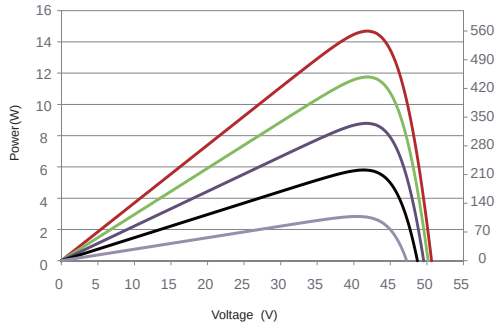
I-V CURVES OF PV MODULE




## BIFACIAL OUTPUT-REARSIDE POWER GAIN

| | | | | | | |
|---|---|---|---|---|---|---|
| **5%** | **Maximum Power(pmax)** | 567 | 572 | 578 | 583 | 588 |
| | **Module Efficiency STC** | 21.9% | 22.1% | 22.3% | 22.5% | 22.8% |
| **10%** | **Maximum Power(pmax)** | 621 | 627 | 633 | 638 | 644 |
| | **Module Efficiency STC** | 24.0% | 24.3% | 24.5% | 24.7% | 24.9% |
| **15%** | **Maximum Power(pmax)** | 675 | 681 | 688 | 694 | 700 |
| | **Module Efficiency STC** | 26.1% | 26.4% | 26.6% | 26.8% | 27.1% |

P-V CURVES OF PV MODULE




## MECHANICAL DATA

| | |
|---|---|
| **Solar cells** | Mono-crystalline 182*91mm,9/10/16 Bus bars |
| **Cell configuration** | 144cells(6*24) |
| **Module dimensions** | 2279*1134*30mm/35mm |
| **Weight** | 27.2kg/28.6kg |
| **Front Cover** | 3.2mm Tempered Glass |
| **J-BOX** | IP68 |
| **Cable** | 4mm²(IEC)/12AWG(UL), 300mm+300mm(or customized) |
| **Connectors** | MC4 or MC4 Comparable |
| **Standard Packaging** | 37/31pcs/pallet |

## TEMPERATURE & MAXIMUM RATINGS

| | |
|---|---|
| **Nominal Operating Cell Temperature(NOCT)** | 45°C±2°C |
| **Temperature Coefficient of Voc** | -0.25%/°C |
| **Temperature Coefficient of Isc** | 0.045%/°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

| | |
|---|---|
| **Number of modules per container** | 740/620 pcs/40HQ |
| **Package** | 37/31 pcs/pallet |
| **Package Number** | 20 pallets |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