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# RT7I-M (N-TYPE/TOPCON)

**144 Cells**

Mono N-TYPE/TOPCON 9BB

**450-470W**

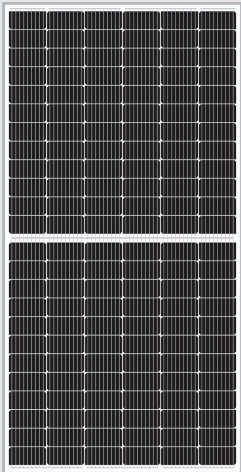
Power Output

**21.62%**

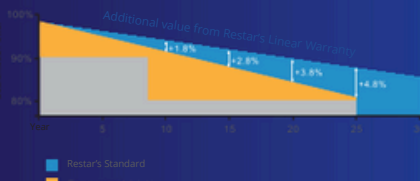
The Highest Efficiency

**0~+5W**

Tolerance



**0.5% Annual Degradation  
over 30 years**



LINEAR PERFORMANCE WARRANTY

**15** Year Product Warranty

**30** Year Linear Power Warranty

## RT7I-M (N-TYPE/TOPCON)

**RT7I-M** multi-busbar cells, which lower the failure risk caused by cracks and broken busbar to can reduce the module internal power loss to improve its conversion efficiency, as well as enhance the module reliability. Combined with half-cell technology, the module is highly resistant to hot-spot caused by shadow effect.



### High Reliability

MBB technology can effectively reduce the reliability risk caused 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).

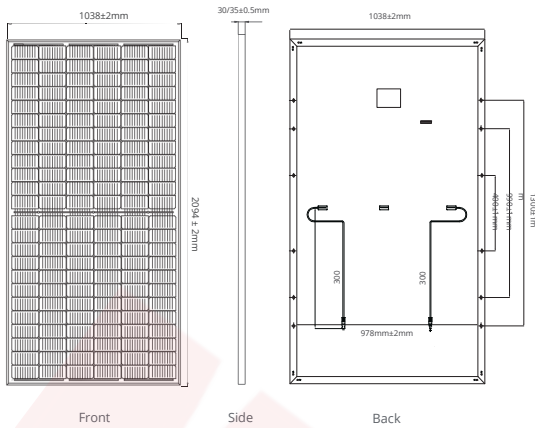
## Full range of products and certification systems

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

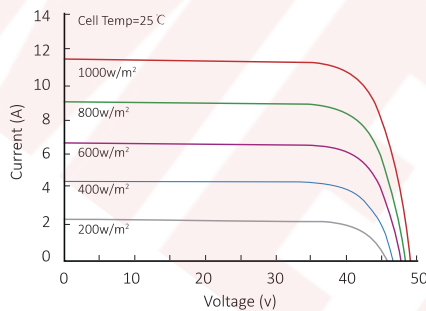


GLOBAL PROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

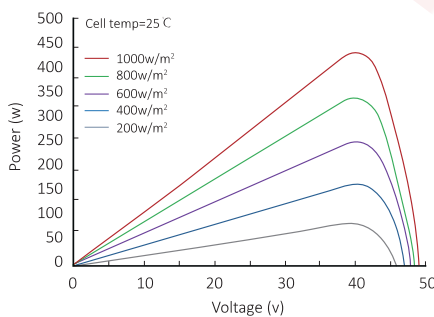
Dimension of PV Modules Unit: mm



Current-Voltage Curve (RT7I-450M)



Power-Voltage Curve (RT7I-450M)



### Electrical Data(STC)

Rated Power In Watts-Pmax(Wp)	450W	455W	460W	465W	470W
Open Circuit Voltage-Voc(V)	49.30V	49.50V	49.70V	49.90V	50.10V
Short Circuit Current-Isc(A)	11.60A	11.67A	11.74A	11.82A	11.89A
Maximum Power Voltage-Vmp(V)	41.50V	41.70V	41.90V	42.09V	42.27V
Maximum Power Current-Imp(A)	10.85A	10.91A	10.98A	11.05A	11.12A
Module Efficiency(%)	20.70%	20.93%	21.16%	21.39%	21.62%

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

### Electrical Data(NOCT)

Rated Power In Watts-Pmax(Wp)	336.1W	339.8W	343.6W	346.9W	350.6W
Open Circuit Voltage-Voc(V)	46.20V	46.40V	46.60V	46.76V	46.94V
Short Circuit Current-Isc(A)	9.38A	9.43A	9.48A	9.55A	9.61A
Maximum Power Voltage-Vmp(V)	38.70V	38.90V	39.10V	39.20V	39.35V
Maximum Power Current-Imp(A)	8.68A	8.74A	8.79A	8.85A	8.91A

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

### Mechanical Data

Solar Cells	Mono N-type/Topcon 166*83mm
Cell Configuration	144cells(6*24)
Module	2094*1038*35mm/30mm
Dimensions Weight	23.9kg/21.7kg
Front Cover	3.2mm Tempered Glass
Frame colour	Silver/black
Back sheet	White/black/Transparent
J-Box	IP68,3 diodes
Cable	4mm²(IEC)/12AWG(UL),300mm or customized length
Connectors	MC4 or MC4 Compatible

### Temperature & Maximum ratings

Nominal Operating Cell Temperature(NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.25%/°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	20A
Limiting Reverse Current	20A

### Packaging Configuration

Modules per container	726pcs/836pcs
Package	31/36pcs/pallet Package; 2pcs/carton
Number	22pallets+22cartons/22pallets+22cartons

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