

# RTM270-275M

**60 Cells**

Mono PERC, 12 BB

**270-275W**

Power output

**18.94%**

The Highest Efficiency

**±3%**

Tolerance



WWW.RESTARSOLAR.COM

# RTM270-275M

RTMXXXM 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

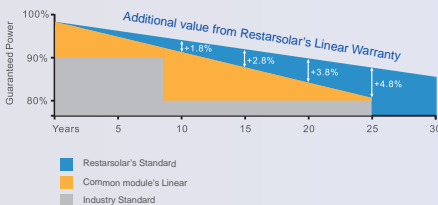
With high transmittance and anti-reflective 3.2mm tempered glass, the module has stronger performance under low light circumstances.



### High Mechanical Strength

Certified to withstand: high wind load(2400Pa) and snow load(5400Pa).

## 0.5% Annual Degradation over 30 years



### LINEAR PERFORMANCE WARRANTY

**12 Year Product Warranty**

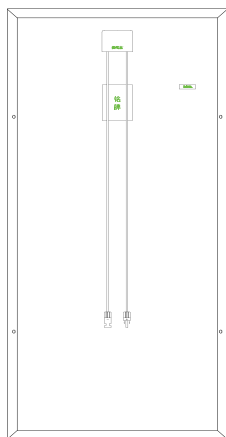
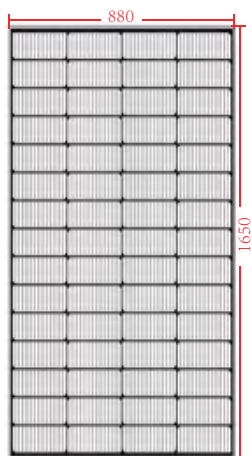
**30 Year Linear Power Warranty**

## Full range of products and certification systems

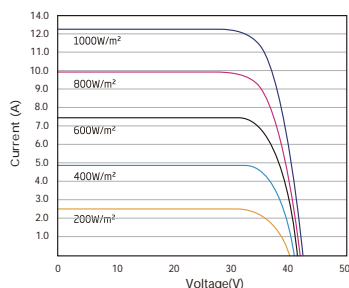
ISO 9001/14001 TUV PID-FREE CE IEC 61215/61730/61701/62716



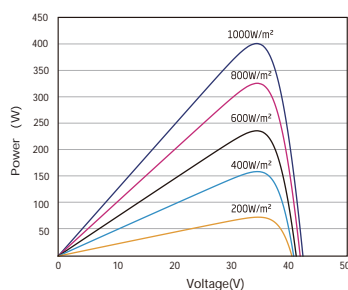
**Dimension of PV Modules** Unit: mm



**I-V CURVES OF PV MODULE**



**P-V CURVES OF PV MODULE**



**ELECTRICAL DATA(STC)**

Rated Power in Watts-Pmax(Wp)	270	275
Open Circuit Voltage-Voc(V)	40.50	40.60
Short Circuit Current-Isc(A)	8.62	8.75
Maximum Power Voltage-Vmp(V)	33.72	33.84
Maximum Power Current-Imp(A)	8.01	8.13
Module Efficiency	18.60%	18.94%

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)	201.49	205.24
Open Circuit Voltage-Voc (V)	37.95	38.04
Short Circuit Current-Isc(A)	6.96	7.07
Maximum Power Voltage-Vmp(V)	31.40	31.52
Maximum Power Current-Imp(A)	6.42	6.51

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

**MECHANICAL DATA**

Solar cells	Mono-crystalline 210*105mm
Cell configuration	60 cells(4*15)
Module dimensions	1650*880*35/30mm
Weight	15.9/15.2kg
Front Cover	3.2mm Tempered Glass
Frame Materia	IP68, 3 Diodes
J-BOX	4mm²(IEC)/12AWG(UL), 900mm, or customized
Cable	MC4 or MC4 Comparable

**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	25A
Limiting Reverse Current	25A