

## RT8I-M

**144 Cells**

Mono-crystalline 10BB

**535-560W**

Power output

**21.66%**

The Highest Efficiency

**0~+5W**

Tolerance

WWW.RESTARSOLAR.COM

RT8I-M 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-spot crisis caused by shadow effect.



High module conversion efficiency (up to 21.66%), through superior manufacturing technology



Guaranteed 0~+5W positive power output tolerance ensures high reliability



Anti-reflective, hydrophobic coating improves light absorption and reduces surface dust



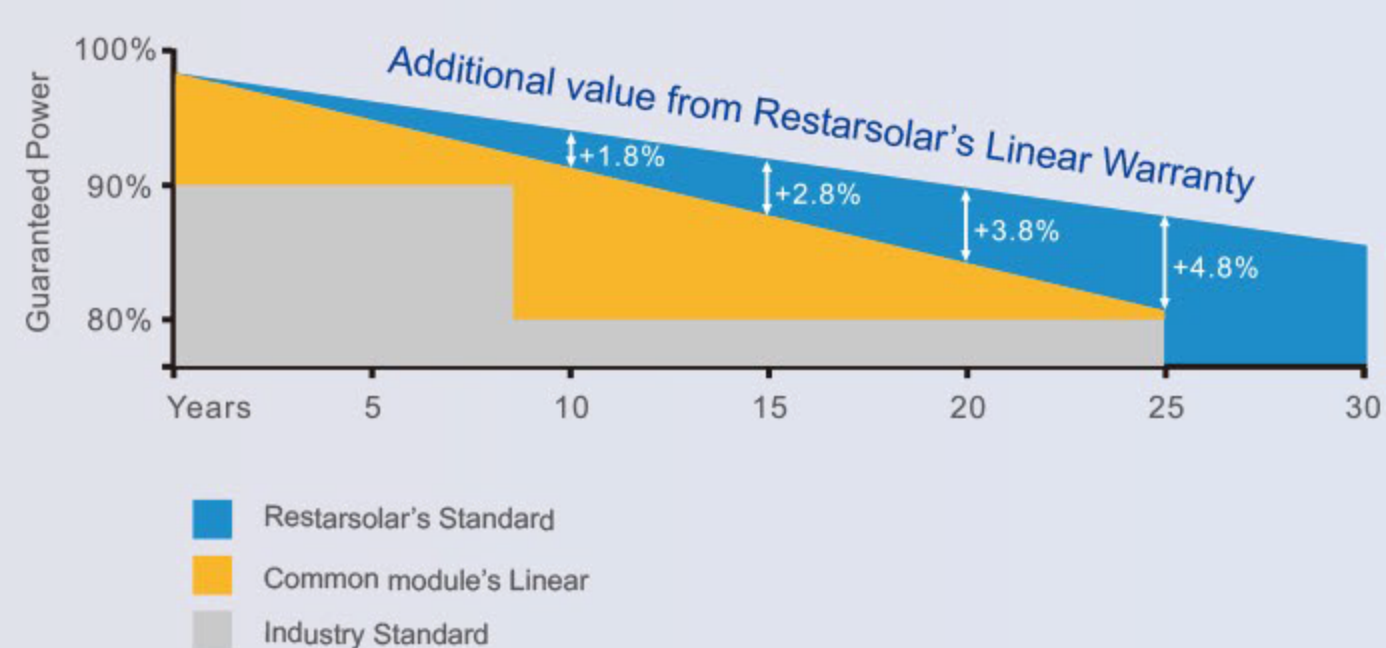
Excellent performance under low light environments (mornings, evenings and cloudy days)



Suitable for harsh environments, such as coasts, deserts and lakes. Withstand high level of wind loads (2400pa) and snow loads (5400pa)



### 0.5% Annual Degradation over 30 years



### Full range of products and certification systems

ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716

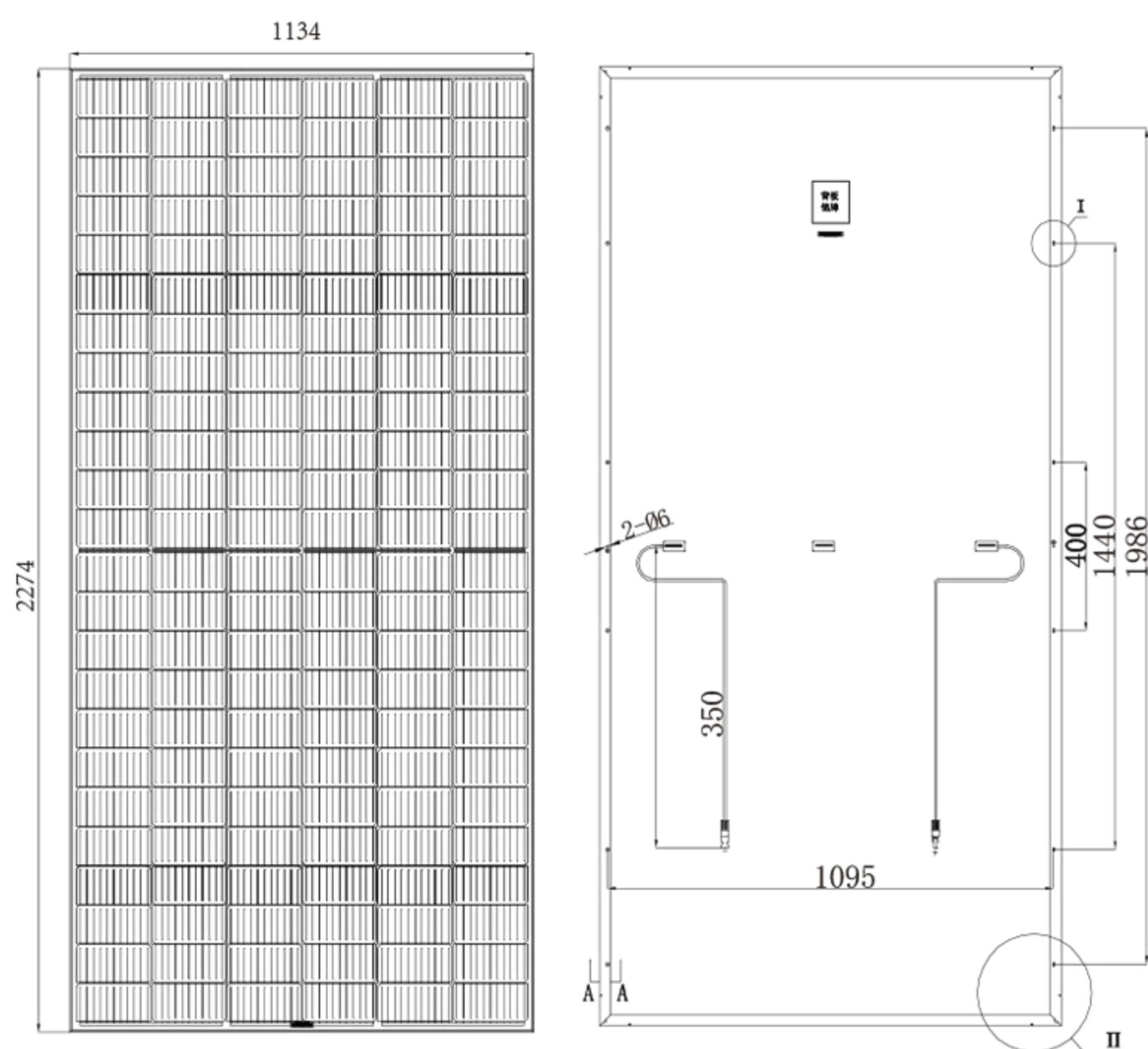


**LINEAR PERFORMANCE WARRANTY**

12 year Product Warranty / 30 year Linear Power Warranty



**Dimension of PV Modules** Unit: mm



**ELECTRICAL DATA(STC)**

Rated Power in Watts-Pmax(Wp)	535W	540W	545W	550W	555W	560W
Open Circuit Voltage-Voc(V)	49.06V	49.80V	50.00V	50.02V	50.40V	50.60V
Short Circuit Current-Isc(A)	13.69A	13.75A	13.81A	13.87A	13.93A	13.99A
Maximum Power Voltage-Vmp(V)	41.01V	41.60V	41.80V	42.00V	42.20V	42.40V
Maximum Power Current-Imp(A)	12.93A	12.99A	13.04A	13.10A	13.16A	13.21A
Integrated Solutions Supplier	20.69%	20.89%	21.08%	21.27%	21.47%	21.66%

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

**ELECTRICAL DATA(NOCT)**

Maximum Power-Pmax (Wp)	405W	408W	412W	416W	420W	424W
Open Circuit Voltage-Voc (V)	47.40V	47.60V	47.80V	48.0V	48.20V	48.40V
Short Circuit Current-Isc (A)	11.04A	11.09A	11.13A	11.18A	11.23A	11.28A
Maximum Power Voltage-Vmp(V)	38.80V	39.00V	39.20V	39.40V	39.60V	39.80V
Maximum Power Current-Imp(A)	10.42A	10.47A	10.51A	10.56A	10.61A	10.65A

NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

**MECHANICAL DATA**

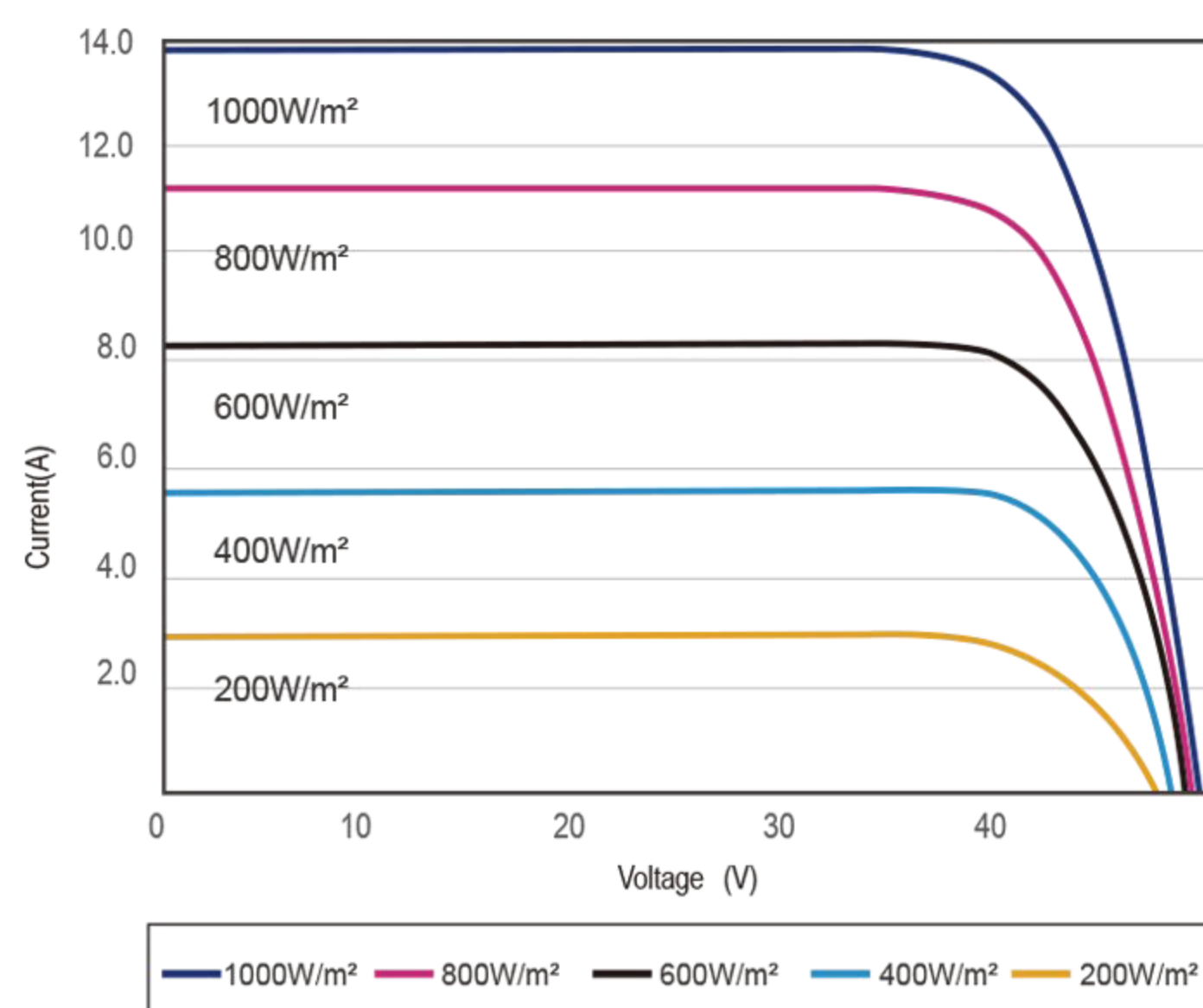
Solar cells	Mono-crystalline 182x91mm, 9 or 10 bus bars
Cell configuration	144cells(6x24)
Module dimensions	2274x1134x35mm
Weight	29KGS
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP68, 3 Diodes
Cable	4mm <sup>2</sup> (IEC)/12A WG(UL),900mm or customized
Connectors	MC4 or MC4 Comparable
Standard Packaging	31pcs/Pallet

**TEMPERATURE & MAXIMUM RATINGS**

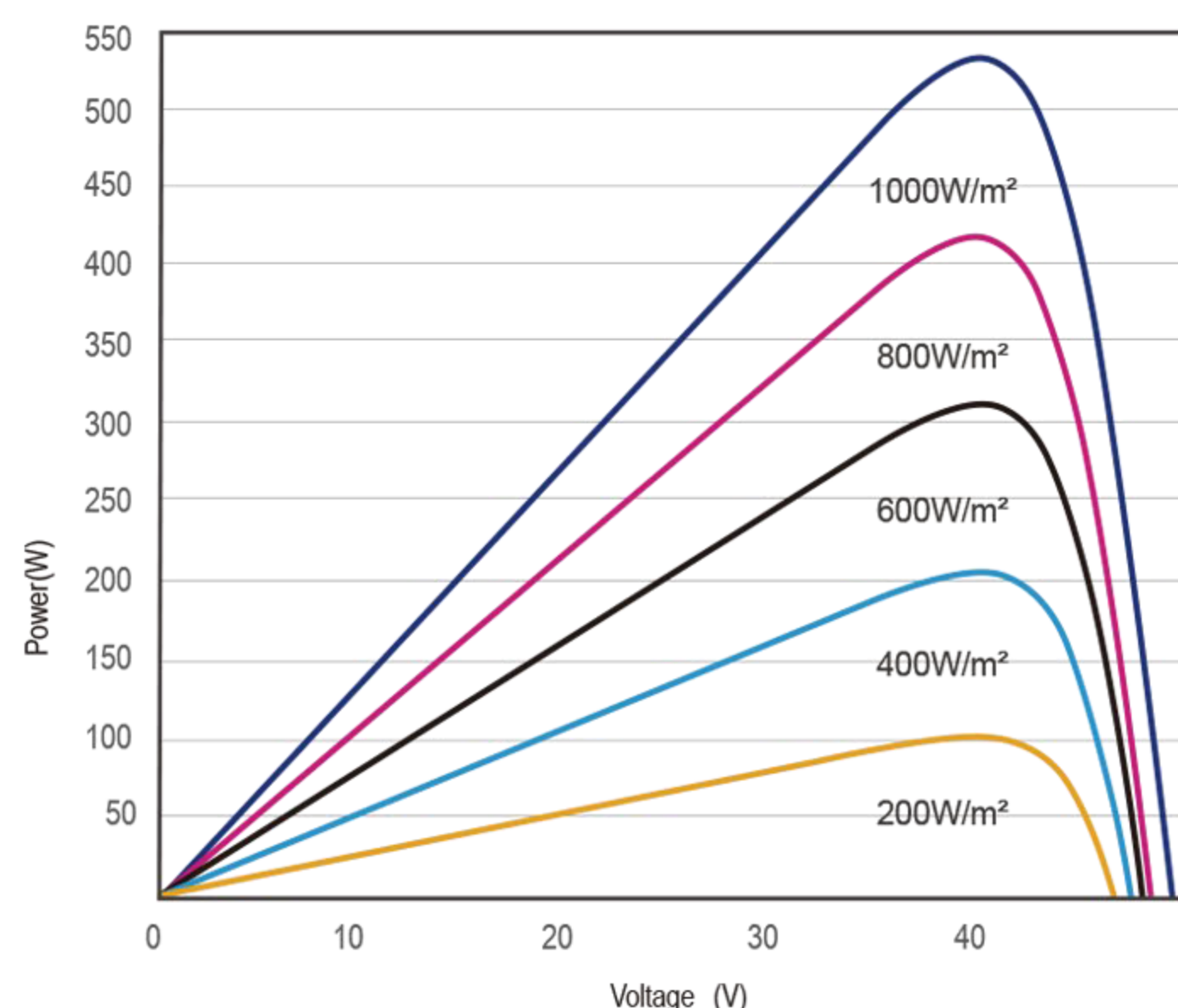
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.39%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V(IEC)
Max Series Fuse Rating	25A

**PACKAGING CONFIGURATION**

Packing Type	40HQ
Piece/Pallet	31
Pallet/Container	20
Piece/Container	620



I-V CURVES OF PV MODULE(540W)



P-V CURVES OF PV MODULE(540W)