



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



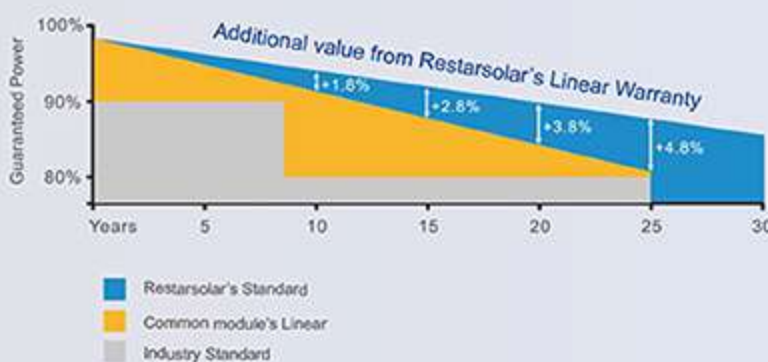
Excellent performance under low light environments (mornings, evenings and cloudy days)



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



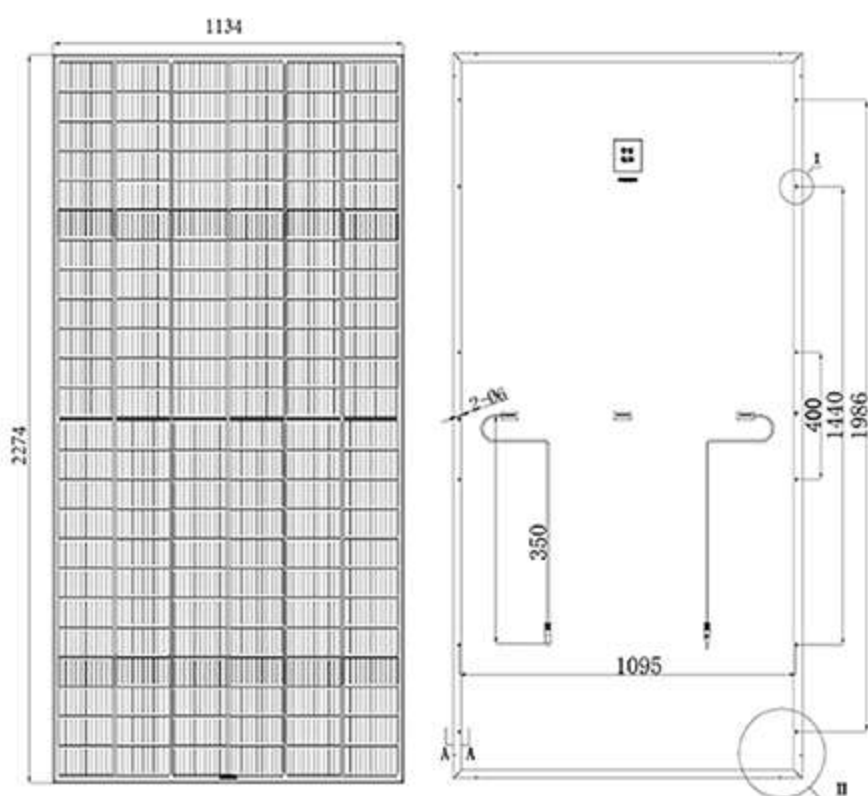
LINEAR PERFORMANCE WARRANTY
12 year Product Warranty / 30 year Linear Power Warranty

Full range of products and certification systems

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



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 |
| Module Efficiency (%) | 20.69% | 20.89% | 21.08% | 21.27% | 21.47% | 21.66% |

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) | 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/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

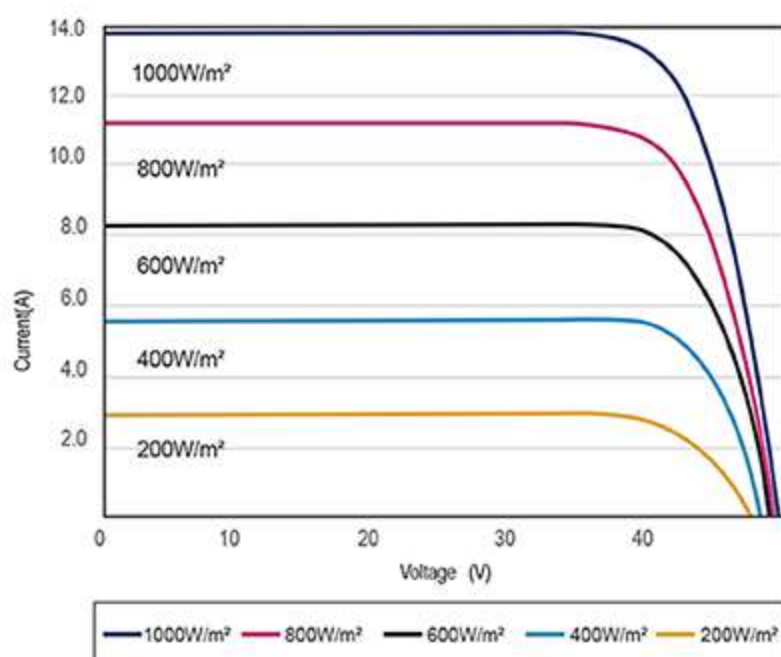
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|--------------------|---|
| Solar cells | Mono-crystalline 182x91mm, 9 or 10 bus bars |
| Cell configuration | 144cells(6x24) |
| Module dimensions | 2279x1134x35mm |
| Weight | 29KGS |
| Front Cover | 3.2mm Tempered Glass |
| Frame Material | Anodized Aluminum Alloy |
| J-BOX | IP68, 3 Diodes |
| Cable | 4mm ² (IEC)/12A WG(UL),900mm or customized |
| Connectors | MC4 or MC4 Comparable |
| Standard Packaging | 31pcs/Pallet |

TEMPERATURE & MAXIMUM RATINGS

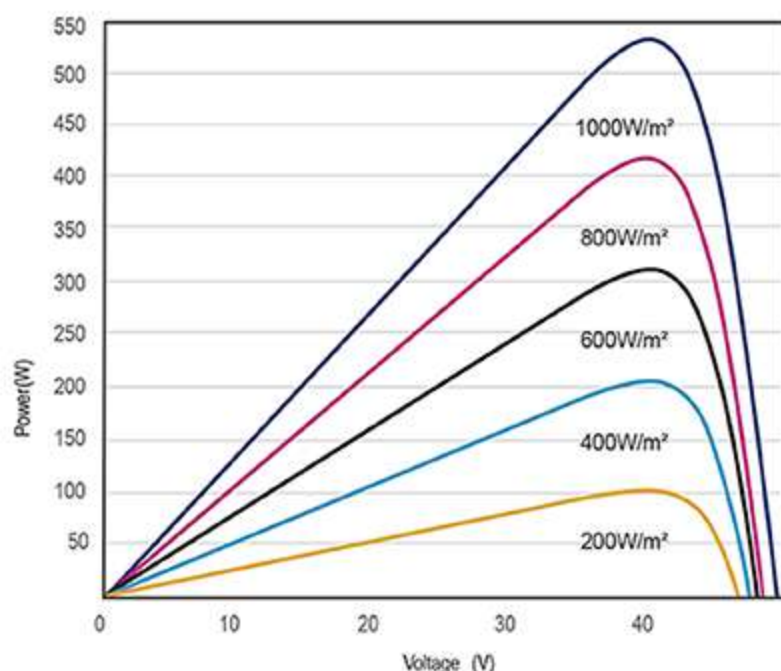
| | |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C |
| Temperature Coefficient of Voc | -0.32%/°C |
| Temperature Coefficient of Isc | 0.05%/°C |
| Temperature Coefficient of Pmax | -0.39%/°C |
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1500V(IEC)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