



RT8I-M

144 Cells

Mono-crystalline 10BB

550-575W

Power output

22.25%

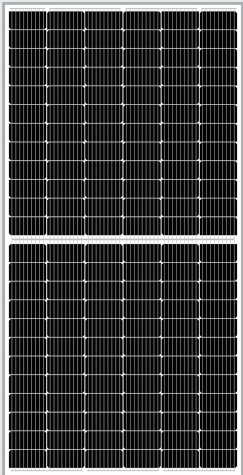
The Highest Efficiency

0~+5W

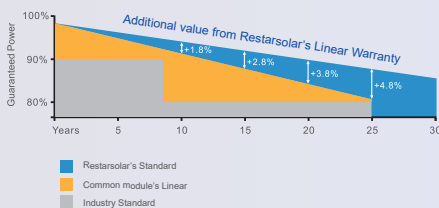
Tolerance

WWW.RESTARSOLAR.COM

RT8I-M is a robust solar module with 144 half-cut solar cells. These modules can be used for on-grid solar applications. Our meticulous design and production techniques ensure a high-yield, long-term performance for every module produced. Our rigorous quality control and in-house testing facilities guarantee Restar solar's modules meet the highest quality standards possible.



0.5% Annual Degradation over 30 years



High module conversion efficiency (up to 22.25%), 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)

Full range of products and certification systems

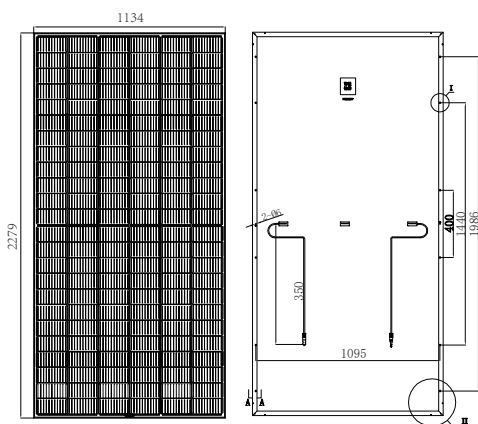
ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716



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)	550W	555W	560W	565W	570W	575W
Open Circuit Voltage-Voc(V)	49.90	49.98	50.05	50.20	50.35	50.50
Short Circuit Current-Isc(A)	14.00	14.03	14.07	14.14	14.21	14.28
Maximum Power Voltage-Vmp(V)	41.96	42.06	42.12	42.26	42.42	42.57
Maximum Power Current-Imp(A)	13.11	13.19	13.30	13.37	13.44	13.51
Integrated Solutions Supplier	21.28%	21.48%	21.67%	21.86%	22.06%	22.25%

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

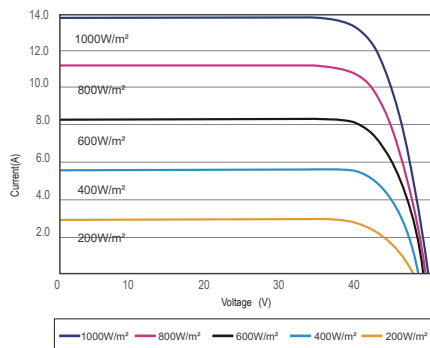
ELECTRICAL DATA(NOCT)

Maximum Power-Pmax (Wp)	416	420	424	428	432	436
Open Circuit Voltage-Voc (V)	46.68	46.78	46.85	46.98	47.11	47.33
Short Circuit Current-Isc (A)	11.17	11.20	11.24	11.28	11.32	11.36
Maximum Power Voltage-Vmp(V)	39.43	39.62	39.67	39.88	40.09	40.30
Maximum Power Current-Imp(A)	10.55	10.60	10.69	10.73	10.78	10.82

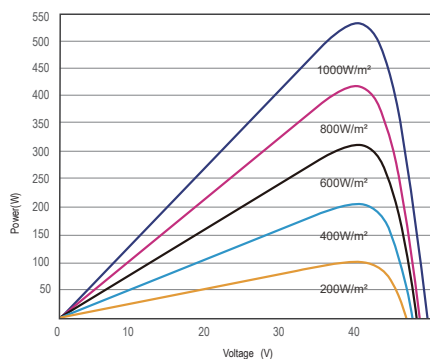
NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar cells	Mono-crystalline 182x91mm, 10~11bus bars
Cell configuration	144cells(6x24)
Module dimensions	2279x1134x35mm
Weight	28.6KGS
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP68, 3 Diodes
Cable	4mm ² (IEC)/12AWG(UL),35cm(+)/45cm(-) or customized
Connectors	MC4 or MC4 Comparable
Standard Packaging	31pcs/Pallet



I-V CURVES OF PV MODULE(540W)



P-V CURVES OF PV MODULE(540W)

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	20A

PACKAGING CONFIGURATION

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