

RTM100M

36 Cells

Mono-crystalline

100W

Power output

15.44%

The Highest Efficiency

0~+5W

Tolerance

WWW.RESTARSOLAR.COM

RTM100M is a robust solar module with 36 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 Restarsolar modules meet the highest quality standards possible.



High module conversion efficiency (up to 15.44%), 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

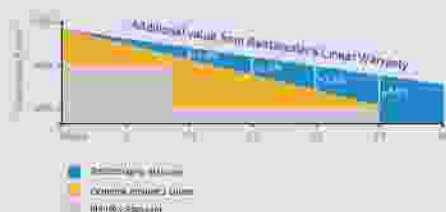


Excellent performance under low light environments (mornings, evenings and cloudy days)



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

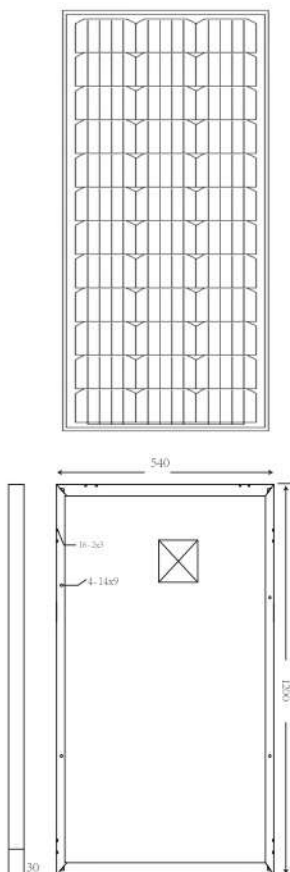
100W (100W) 100W (100W) 100W (100W) 100W (100W) 100W (100W) 100W (100W) 100W (100W) 100W (100W) 100W (100W) 100W (100W)

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)	100W
Open Circuit Voltage-Voc(V)	21.40V
Short Circuit Current-Isc(A)	6.13A
Maximum Power Voltage-Vmp(V)	18.20V
Maximum Power Current-Imp(A)	5.50A
Module Efficiency (%)	15.44%

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

ELECTRICAL DATA(NOCT)

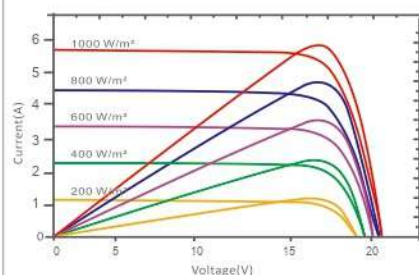
Maximum Power-Pmax (Wp)	74.67W
Open Circuit Voltage-Voc (V)	20.25V
Short Circuit Current-Isc (A)	4.95A
Maximum Power Voltage-Vmp(V)	16.95V
Maximum Power Current-Imp(A)	4.41A

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

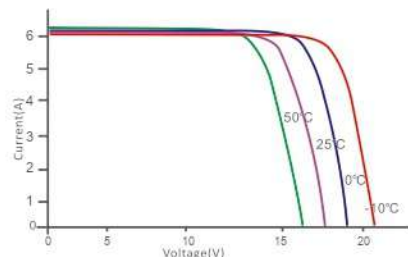
MECHANICAL DATA

Solar cells	Mono-crystalline 156x91mm, 5 Bus bars
Cell configuration	36Cells (3x12)
Module dimensions	1200x540x30mm
Weight	6.8KGS
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP65 or IP67, 3 Diodes
Cable	4mm2(IEC)/12AWG(UL),900m8
Connectors	MC4 or MC4 Comparable

I-V characteristics at different irradiancies



I-V characteristics at different temperature



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	1000V(IEC)/600V(UL)
Max Series Fuse Rating	15A
Limiting Reverse Current	15A

PACKAGING CONFIGURATION

	40HQ
Number of modules per container	3010pcs
Package	5pcs/carton
Package Number	602carton