

RTM175-195M

36 Cells
 Mono-crystalline 9BB

175-195W
 Power output

19.12%
 The Highest Efficiency

0 ~ +5W
 Tolerance

WWW.RESTARSOLAR.COM

RTM175-195M 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's modules meet the highest quality standards possible



High module conversion efficiency (up to 19.12%), 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

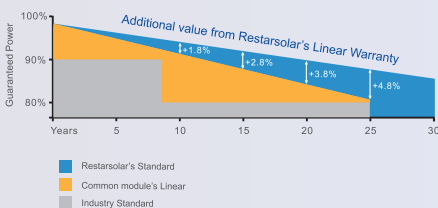


Excellent performance under low light environments (mornings, evenings and cloudy days)



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



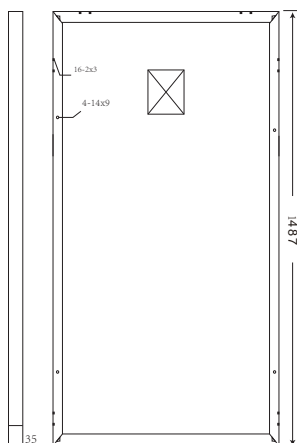
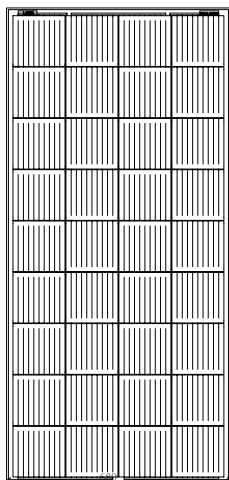
LINEAR PERFORMANCE WARRANTY
 12 year Product Warranty / 30 year Linear Power Warranty

Full range of products and certification systems

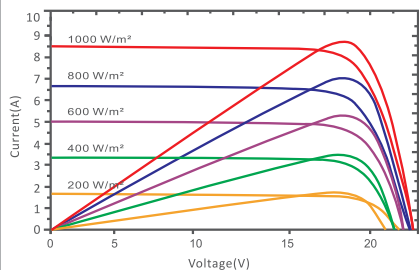
ISO9001 TUV PID-FREE CE IEC61215/61730/61701/62716



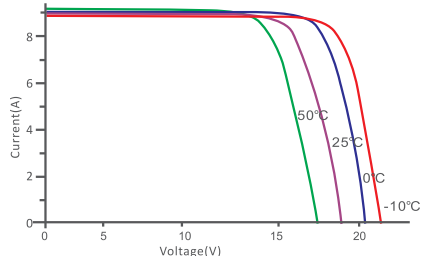
Dimension of PV Modules Unit: mm



I-V characteristics at different irradiances



I-V characteristics at different temperature



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	175W	180W	185W	190W	195W
Open Circuit Voltage-Voc(V)	23.43V	23.74V	24.05V	24.36V	24.67V
Short Circuit Current-Isc(A)	9.51A	9.62A	9.73A	9.88A	9.99A
Maximum Power Voltage-Vmp(V)	18.95V	19.36V	19.77V	20.18V	20.57V
Maximum Power Current-Imp(A)	9.24A	9.30A	9.36A	9.42A	9.48A
Module Efficiency (%)	17.16%	17.65%	18.14%	18.63%	19.12%

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)	130.6W	134.3W	138.0W	141.7W	145.5W
Open Circuit Voltage-Voc (V)	21.98V	22.27V	22.56V	22.85V	23.14V
Short Circuit Current-Isc (A)	7.68A	7.77A	7.86A	7.98A	8.07A
Maximum Power Voltage-Vmp(V)	17.62V	18.00V	18.39V	18.77V	19.13V
Maximum Power Current-Imp(A)	7.41A	7.46A	7.51A	7.55A	7.60A

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

MECHANICAL DATA

Solar cells	Mono-crystalline 158.75x158.75mm, 9 Bus bars
Cell configuration	36 cells(4x9)
Module dimensions	1487x666x35mm
Weight	12KGS
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP67 or IP68, 2 or 3 Diodes
Cable	4mm ² (IEC)/12AWG(UL),900mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	2pcs/carton

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	20GP
Number of modules per container	1680pcs	656pcs
Package	2pcs/carton	2pcs/carton
Package Number	840cartons	328carton