



# RT6E-M

**36 Cells**

Mono-crystalline

**165-180W**

Power output

**18.01%**

The Highest Efficiency

**0~+5W**

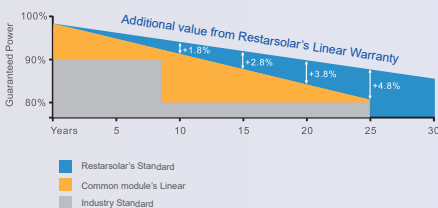
Tolerance

WWW.RESTARSOLAR.COM

RT6E-M 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



## 0.5% Annual Degradation over 30 years



### LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty 25 Year Linear Power Warranty



High module conversion efficiency (up to 18.01%), 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)



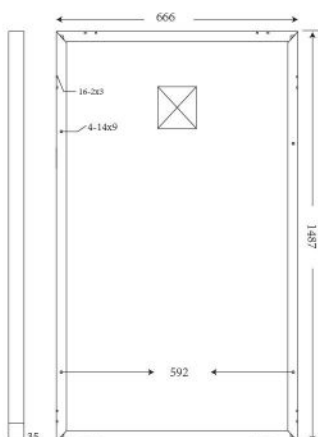
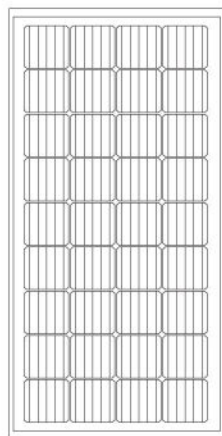
Suitable for harsh environments, such as coasts, deserts and lakes. Withstand high level of wind loads (2400pa) and snow loads (5400pa)

### Full range of products and certification systems

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



**Dimension of PV Modules** Unit: mm



**ELECTRICAL DATA(STC)**

Rated Power in Watts-Pmax(Wp)	165W	170W	180W
Open Circuit Voltage-Voc(V)	22.20V	22.40V	24.28V
Short Circuit Current-Isc(A)	9.78A	9.97A	9.50A
Maximum Power Voltage-Vmp(V)	18.80V	19.00V	19.87V
Maximum Power Current-Imp(A)	8.78A	8.95A	9.06A
Module Efficiency (%)	16.66%	17.17%	18.01%

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

**ELECTRICAL DATA(NOCT)**

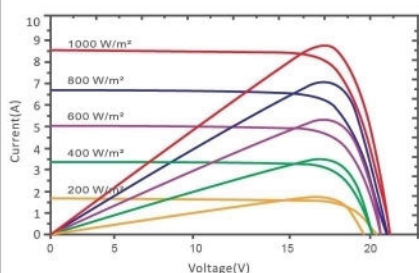
Maximum Power-Pmax (Wp)	123.14W	126.86W	134.55W
Open Circuit Voltage-Voc (V)	21.60V	21.80V	22.20V
Short Circuit Current-Isc (A)	7.90A	8.06A	8.36A
Maximum Power Voltage-Vmp(V)	17.51V	17.70V	18.06V
Maximum Power Current-Imp(A)	7.03A	7.17A	7.45A

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

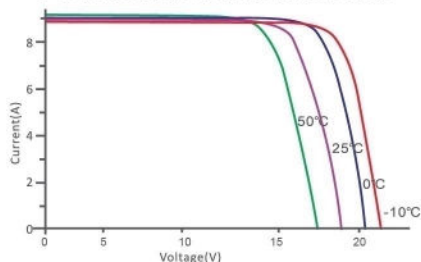
**MECHANICAL DATA**

Solar cells	Mono-crystalline 156x156mm, 4 or 5 Bus bars
Cell configuration	36 cells(4x9)
Module dimensions	1487x666x35mm
Weight	11KGS
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP65 or IP67, 6 Diodes
Cable	4mm <sup>2</sup> (IEC)/12AWG(UL),900mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	2pcs/carton box

**I-V characteristics at different irradiations**



**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	12A
Limiting Reverse Current	12A

**PACKAGING CONFIGURATION**

	40HQ	20GP
Number of modules per container	1654pcs	700pcs
Package	2pcs/carton	2pcs/carton box
Package Number	827cartons	350cartons