



# RT6E165M

**36 Cells**

Mono-crystalline

**165 W**

Power output

**16.66%**

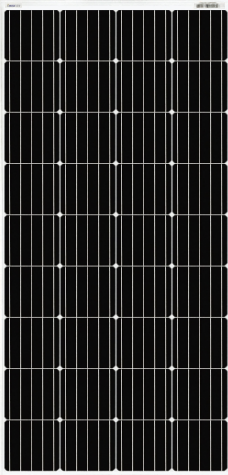
The Highest Efficiency

**0~+5W**

Tolerance

WWW.RESTARSOLAR.COM

RT6E165M 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 16.66%), 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

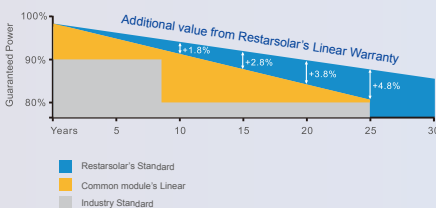


Excellent performance under low light environments (mornings, evenings and cloudy days)



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



## Full range of products and certification systems

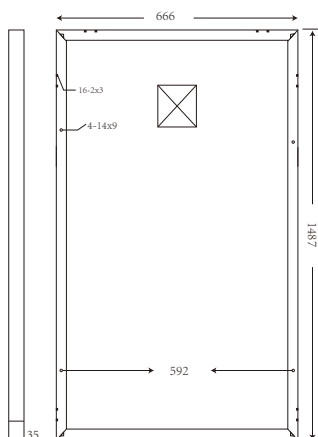
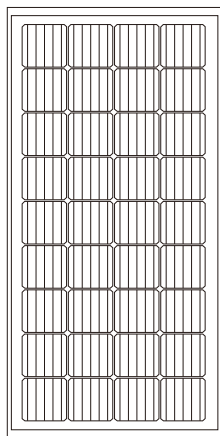
ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716



**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)	<b>165W</b>
Open Circuit Voltage-Voc(V)	22.20V
Short Circuit Current-Isc(A)	9.78A
Maximum Power Voltage-Vmp(V)	18.20V
Maximum Power Current-Imp(A)	8.78A
Module Efficiency (%)	16.66%

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

**ELECTRICAL DATA(NOCT)**

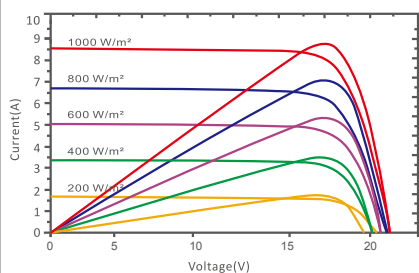
Maximum Power-Pmax (Wp)	<b>123.14W</b>
Open Circuit Voltage-Voc (V)	20.80V
Short Circuit Current-Isc (A)	7.90A
Maximum Power Voltage-Vmp(V)	17.51V
Maximum Power Current-Imp(A)	7.03A

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

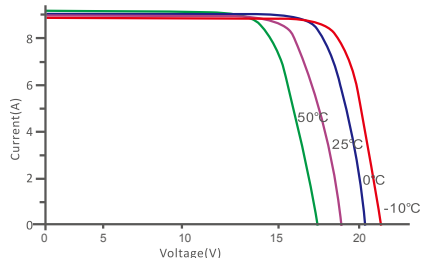
**MECHANICAL DATA**

Solar cells	Mono-crystalline 156x156mm, 5 Bus bars
Cell configuration	36 cells(4x9)
Module dimensions	1487x666x35mm
Weight	11.5KGS
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP65 or IP67, 3 Diodes
Cable	4mm <sup>2</sup> (IEC)/12AWG(UL),900mm
Connectors	MC4 or MC4 Comparable

**I-V characteristics at different irradiances**



**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
Modules per container	1650pcs
Package	2pcs/carton
Package Number	825cartons