

# RTM040M

**36 Cells**

Mono-crystalline

**40W**

Power output

**13.68%**

The Highest Efficiency

**0~+5W**

Tolerance

WWW.RESTARSOLAR.COM

RTM040M 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 Resun Solar's modules meet the highest quality standards possible.



High module conversion efficiency (up to 13.68%), 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

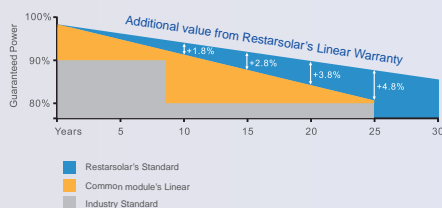


Excellent performance under low light environments (mornings, evenings and cloudy days)



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

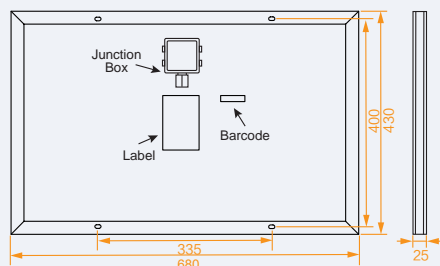
ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716



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>40W</b> |
| Open Circuit Voltage-Voc(V)   | 21.60V     |
| Short Circuit Current-Isc(A)  | 2.45A      |
| Maximum Power Voltage-Vmp(V)  | 18.20V     |
| Maximum Power Current-Imp(A)  | 2.20A      |
| Module Efficiency (%)         | 13.68%     |

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>29.87W</b> |
| Open Circuit Voltage-Voc (V)  | 20.24V        |
| Short Circuit Current-Isc (A) | 1.98A         |
| Maximum Power Voltage-Vmp(V)  | 16.95V        |
| Maximum Power Current-Imp(A)  | 1.76A         |

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

### MECHANICAL DATA

|                    |                                       |
|--------------------|---------------------------------------|
| Solar cells        | Mono-crystalline 156*39mm, 5 Bus bars |
| Cell configuration | 36 cells(4x9)                         |
| Module dimensions  | 430x680x25 mm                         |
| Weight             | 3.2KGS                                |
| Front Cover        | 3.2mm Tempered Glass                  |
| Frame Material     | Anodized Aluminum Alloy               |
| J-BOX              | IP65 or IP67, 3 Diodes                |
| Cable              | 2.5mm2(IEC)/12AWG(UL),800mm           |
| Connectors         | MC4 or MC4 Comparable                 |
| Standard Packaging | 10pcs/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                 |

