

# RT71-M

**144 Cells**

Mono Half-Cell 9BB

**435-460 W**

Power output

**20.83%**

The Highest Efficiency

**0~+5W**

Tolerance

WWW.RESTARSOLAR.COM

RT71-M HALF-CELL series is produced with high efficiency multi-busbar cells, which can reduce the module internal power loss to improve its conversion efficiency, as well as lower the failure risk caused by cracks and broken busbar to enhance the module reliability. Combined with half-cell technology, the module is highly resistant to hot-spot crisis caused by shadow effect.



**HIGHER ENERGY GENERATION  
AND LOWER POWER LOSS**



**ANTI HOT SPOT&PID FREE**



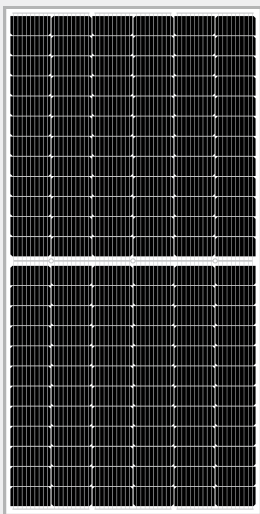
**LESS SHADING EFFECT**



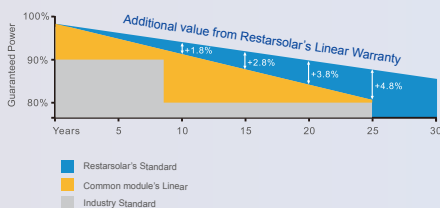
**APPLICABLE FOR 1500V SYSTEM, LOWER  
SYSTEM COST**

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**Entire module certified to withstand high  
wind loads(2400Pascal) and snow loads  
(5400 Pascal)\***



## 0.5% Annual Degradation over 30 years



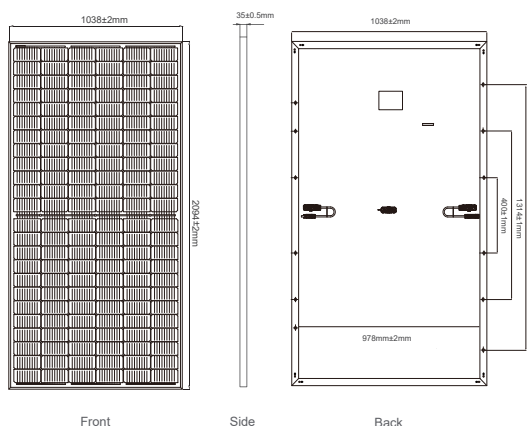
**LINEAR PERFORMANCE WARRANTY**  
 12 year Product Warranty / 30 year Linear Power Warranty

## Full range of products and certification systems

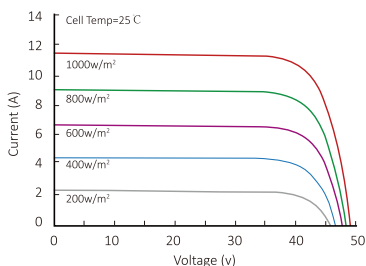
ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716



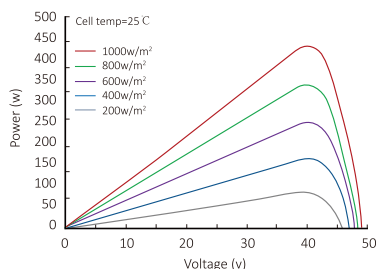
**Dimension of PV Modules** Unit: mm



**Current-Voltage Curve (RT71-440M)**



**Power-Voltage Curve (R T71-440M)**



**ELECTRICAL DATA(STC)**

Rated Power in Watts-Pmax(Wp)	435W	440W	445W	450W	455W	460W
Open Circuit Voltage-Voc(V)	48.7V	48.9V	49.1V	49.3V	49.5V	49.7V
Short Circuit Current-Isc(A)	11.39A	11.46A	11.53A	11.6A	11.67A	11.74A
Maximum Power Voltage-Vmp(V)	40.9V	41.1V	41.3V	41.5V	41.7V	41.9V
Maximum Power Current-Imp(A)	10.64A	10.71A	10.78A	10.85A	10.91A	10.98A
Module Efficiency (%)	20.01%	20.24%	20.47%	20.70%	20.93%	21.16%

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)	324.9W	328.6W	332.3W	336.1W	339.8W	343.6W
Open Circuit Voltage-Voc (V)	45.7V	45.8V	46.0V	46.2V	46.4V	46.6V
Short Circuit Current-Isc (A)	9.21A	9.27A	9.33A	9.38A	9.43A	9.48A
Maximum Power Voltage-Vmp(V)	38.1V	38.3V	38.5V	38.6V	38.9V	39.1V
Maximum Power Current-Imp(A)	8.53A	8.59A	8.64A	8.7A	8.74A	8.79A

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

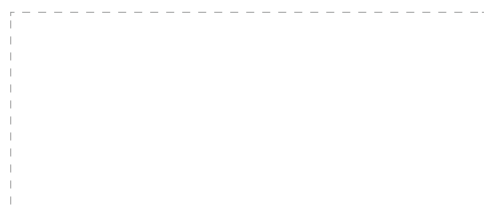
**MECHANICAL DATA**

Solar cells	Mono Half-Cell 166x83mm, 9 Bus bars
Cell configuration	144 Cells (6x24)
Module dimensions	2094x1038*35mm
Weight	25KGS
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP68, 3 Diodes
Cable	4mm2(IEC)/12AWG(UL), 300mm or customized
Connectors	MC4 or MC4 Comparable
Standard Packaging	31pcs/pallet

**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	-0.34%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V(IEC)
Max Series Fuse Rating	20A

**Partner information**



**PACKAGING CONFIGURATION**

Modules per container	40HQ
Package	726pcs
Package Number	31pcs/pallet, 2pcs/carton
	22pallets + 22cartons