

GLOBAL PROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

RT71-M

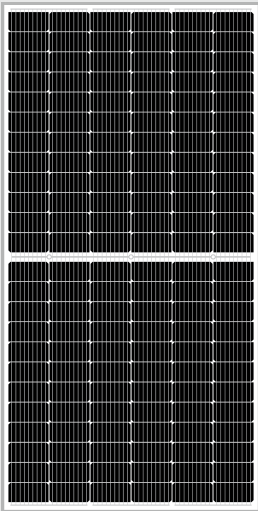
144 Cells

Mono Half-Cell 9BB

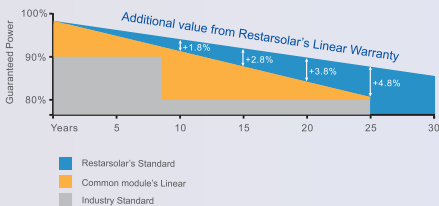
425-450 W
Power output

20.38%
The Highest Efficiency

0~+5W
Tolerance



0.5% Annual Degradation over 30 years



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

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

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

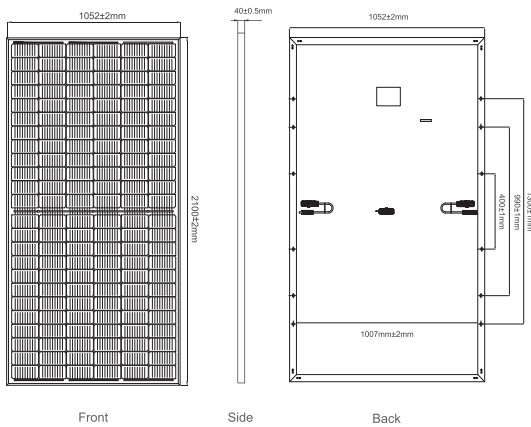
Full range of products and certification systems

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

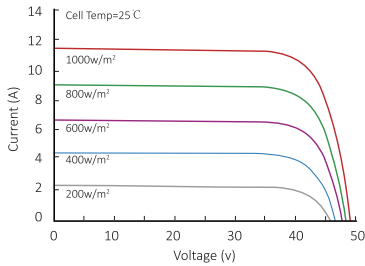


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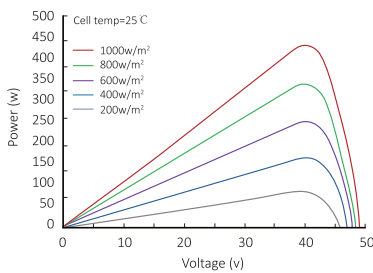
Dimension of PV Modules Unit: mm



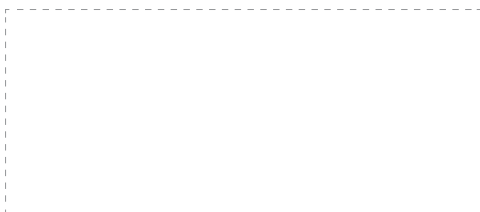
Current-Voltage Curve (RT71-440M)



Power-Voltage Curve (RT71-440M)



Partner information



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	425W	430W	435W	440W	445W	450W
Open Circuit Voltage-Voc(V)	48.3V	48.5V	48.7V	48.9V	49.1V	49.3V
Short Circuit Current-Isc(A)	11.23A	11.31A	11.39A	11.46A	11.53A	11.6A
Maximum Power Voltage-Vmp(V)	40.5V	40.7V	40.9V	41.1V	41.3V	41.5V
Maximum Power Current-Imp(A)	10.5A	10.57A	10.64A	10.71A	10.78A	10.85A
Module Efficiency (%)	19.24%	19.46%	19.69%	19.91%	20.14%	20.37%

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)	317.4W	321.1W	324.9W	328.6W	332.3W	336.1W
Open Circuit Voltage-Voc (V)	45.3V	45.5V	45.7V	45.8V	46.0V	46.2V
Short Circuit Current-Isc (A)	9.08A	9.15A	9.21A	9.27A	9.33A	9.38A
Maximum Power Voltage-Vmp(V)	37.7V	37.9V	38.1V	38.3V	38.5V	38.6V
Maximum Power Current-Imp(A)	8.42A	8.47A	8.53A	8.59A	8.64A	8.7A

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	2100x1052x40mm
Weight	25KGS
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP68, 3 Diodes
Cable	4mm²(IEC)/12AWG(UL),300mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	27pcs/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	-0.39%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V(IEC)
Max Series Fuse Rating	20A

PACKAGING CONFIGURATION

Modules per container	40HQ
Package	616pcs
Package Number	27pcs/pallet, 2pcs/carton
	22pallets + 11cartons