

## RS7I-M FULL BLACK

Half-cell high-efficiency solar panel is cutting cells One divides into two, it could reduce thermal resistance, improve output power 5-10W; it could meet 1500V whole system voltage design demand and reduce whole system cost 10%. In comparison to full solar cell modules, this one cells subfissure, power attenuation and sunshine occlusion is more lower; and excellent high temperature character. It is the best choice for large ground power station, Ecological agriculture fishery project and Distributed beach project.

**144 Cells**  
Mono-crystalline

**450-465W**  
Power output

**21.39%**  
The Highest Efficiency

**0~+5W**  
Tolerance



**HIGHER ENERGY GENERATION  
AND LOWER POWER LOSS**



**ANTI HOT SPOT & PID FREE**



**LESS SHADING EFFECT**

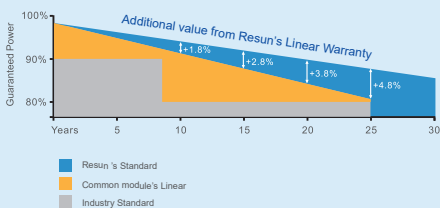


**APPLICABLE FOR 1500V SYSTEM,  
LOWER SYSTEM COST**

**\*\*\***

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

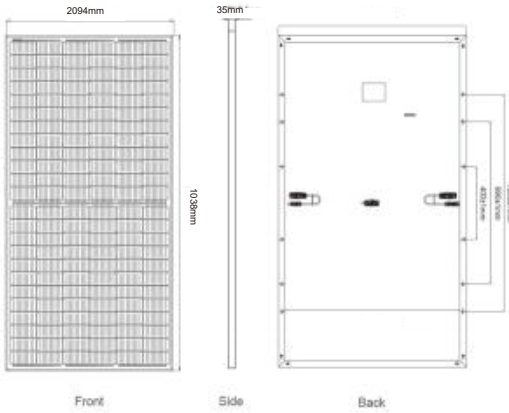
ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716



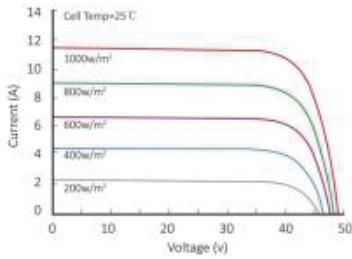
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GLOBAL PROFESSIONAL PV PRODUCTS INTERGRATED SOLUTIONS SUPPLIER

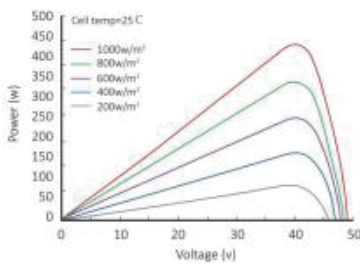
Dimension of PV Modules Unit: mm



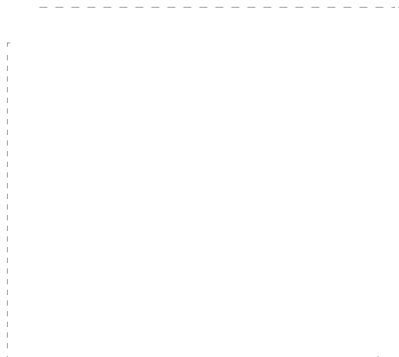
Current-Voltage Curve (RS7I-440M)



Power-Voltage Curve (RS7I-440M)



## Partner information



## ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	450W	455W	460W	465W
Open Circuit Voltage-Voc(V)	49.3V	49.5V	49.7V	49.9V
Short Circuit Current-Isc(A)	11.6A	11.67A	11.74A	11.82A
Maximum Power Voltage-Vmp(V)	41.5V	41.7V	41.9V	42.09V
Maximum Power Current-Imp(A)	10.85A	10.91A	10.98A	11.05A
Module Efficiency (%)	20.70%	20.93%	21.16%	21.39%

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)	336.1W	339.8W	343.6W	346.9W
Open Circuit Voltage-Voc (V)	46.2V	46.4V	46.6V	46.76V
Short Circuit Current-Isc (A)	9.38A	9.43A	9.48A	9.55A
Maximum Power Voltage-Vmp(V)	38.70V	38.90V	39.10V	39.20V
Maximum Power Current-Imp(A)	8.68A	8.74A	8.79A	8.85A

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

## MECHANICAL DATA

Solar cells	Mono-crystalline
Cell configuration	144cells(6*24)
Module dimensions	2094*1038*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
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	-0.39%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V(IEC)/1500V(UL)
Max Series Fuse Rating	20A

## PACKAGING CONFIGURATION

	40HQ
Number of modules per container	726pcs
Package	31pcs/pallet,2pcs/carton box
Package Number	22pallets+22carton