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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Resun Solar Energy Co., Ltd.**

**RS6S-M**

**RS6S 305M**

Also available on the web at  
[EnergyPal.com/resun-solar-energy-co-ltd-solar-panels/rs6s-305m](http://EnergyPal.com/resun-solar-energy-co-ltd-solar-panels/rs6s-305m)

# RS6S-M

300/305/310/315/320/325/330M

## All-Purpose Module

RS6S is a robust solar module with 72 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.

## Monocrystalline Silicon Solar Modules

### Features



High module conversion efficiency (up to 17.05%), through superior manufacturing technology



Guaranteed 0- +5W positive power output tolerance ensures high reliability



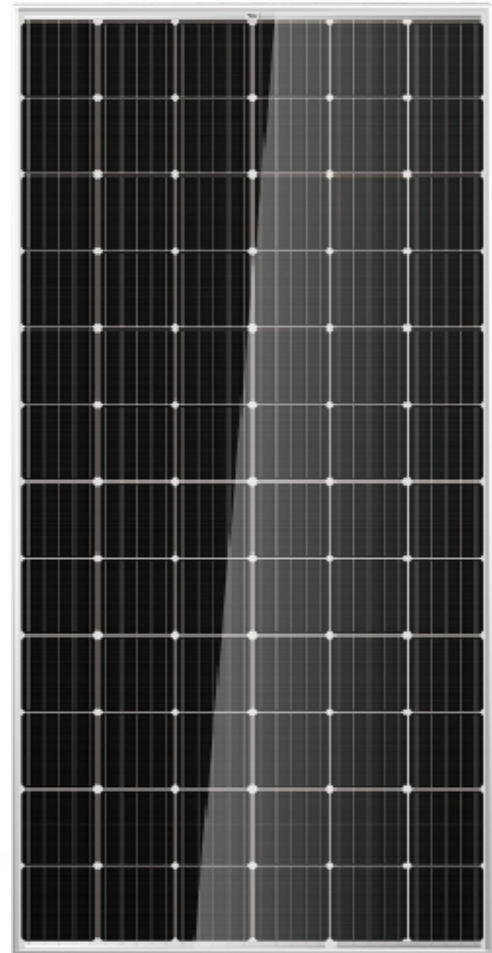
Anti-reflective, hydrophobic coating improves light absorption and reduces surface dust



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



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



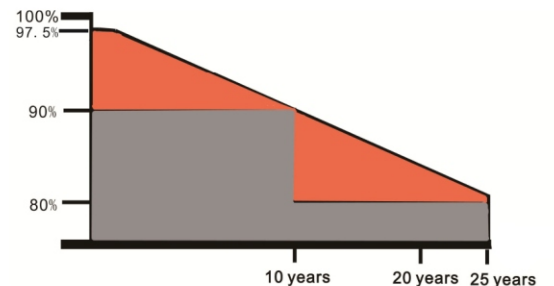
## All-purpose Module

Sales network covers more than 50 countries, providing customers with instant after sales service and an efficient supply-chain, our clients can be found throughout the world, such as North America, Europe, Oceania, Eastern Europe, East Asia, Middle Easter and Africa etc. Resun Solar team works closely with our customers to provide them with solutions for all their solar needs.



Resun reputation is founded on more than 300MW of high performance solar modules installed around the world.

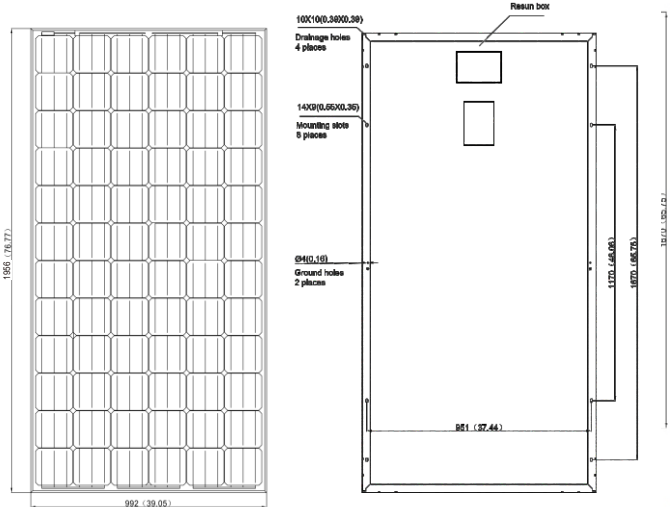
## Industry-leading warranty



- 25 year transferable power output warranty: 10year/90%; 25year/80%.
- Based on nominal power.
- 10 year material and workmanship warranty.

# RS6S-M

## 300/305/310/315/320/325/330M

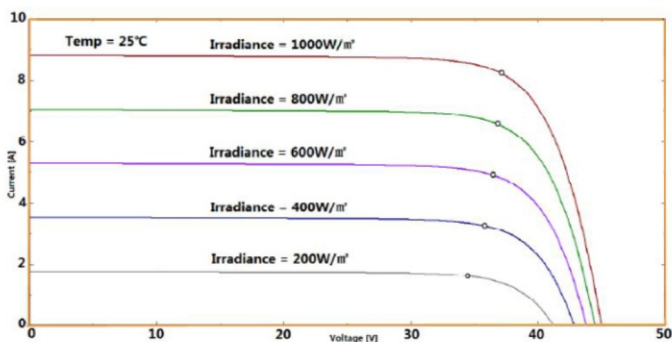


### Electrical Data

STC	RS6S 300M	RS6S 305M	RS6S 310M	RS6S 315M	RS6S 320M	RS6S 325M	RS6S 330M
Nominal Maximum	300W	305W	310W	315W	320W	325W	330W
Optimum Operating	36.8V	36.9V	37.1V	37.2V	37.4V	37.6V	37.8V
Optimum Operating	8.15A	8.27A	8.36A	8.47A	8.56A	8.64A	8.73A
Open CIRCUIT voltage(Voc)	44.2V	44.3V	44.5V	44.6V	44.9V	45.1V	45.3V
Short Circuit Current(Isc)	8.97A	9.09A	9.18A	9.31A	9.41A	9.51A	9.60A
Module Efficiency	15.51%	15.77%	16.03%	16.28%	16.54%	16.80%	17.05%
Operating Temperature	-40℃~+85℃						
Maximum System Voltage	1000V(IEC)/600V(UL)						
Maximum Series Fuse	15A						
Application Classification	Class A						
Power Tolerance	0 ~ + 5W						

Under Standard Test Conditions (STC) of irradiance of 1000W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25℃

### IV-Curves



NOCT	RS6S 300M	RS6S 305M	RS6S 310M	RS6S 315M	RS6S 320M	RS6S 325M	RS6S 330M
Nominal Maximum Power	220W	224W	227W	231W	235W	239W	242W
Optimum Operating Voltage	33.8V	34.0V	34.2V	34.4V	34.5V	34.8V	35.1V
Optimum Operating Current	6.51A	6.59A	6.64A	6.71A	6.81A	6.87A	6.89A
Open Circuit Voltage (Voc)	41.8V	41.9V	42.0V	42.1V	42.2V	42.6V	42.7V
Short Circuit Current (Isc)	7.01A	7.09A	7.15A	7.19A	7.27A	7.48A	7.57A

Under Normal Operating Cell Temperature, irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20℃ wind speed 1m/s

### Mechanical Data

Cell Type	Mono-crystalline 156 x 156mm, 3 or 4 Bus bars
Cell Arrangement	72 (6x12)
Dimensions	1956 x 992 x 40mm(76.77 x 39.05 x 1.57in)
Weight	22kg
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP65 or IP67, 6 Diodes
Cable	4mm2(IEC)/12AWG(UL), 1150mm
Connectors	MC4 or MC4 Comparable
Standard Packaging (Modules per Pallet)	27pcs
Module Pieces per container (40HQ)	624pcs (40'HQ)

### Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2℃
Temperature Coefficient of Pmax	-0.43%/℃
Temperature Coefficient of Voc	-0.34%/℃
Temperature Coefficient of Isc	0.065%/℃

### Packing Configuration

Container	20'GP	40'HQ
Pieces	270	624

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