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# **EnergyPal**

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

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

**RS6S-P**

**RS6S 320P**

Also available on the web at  
[EnergyPal.com/resun-solar-energy-co-ltd-solar-panels/rs6s-320p](http://EnergyPal.com/resun-solar-energy-co-ltd-solar-panels/rs6s-320p)

# RS6S-P

300/305/310/315/320/325P



Resun Solar Energy Co.,Ltd

## 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.

## Mono crystalline Silicon Solar Modules

### Features



High module conversion efficiency (up to 16.80%), through superior manufacturing technology



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



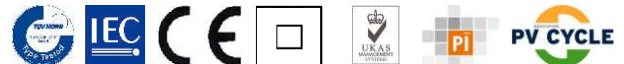
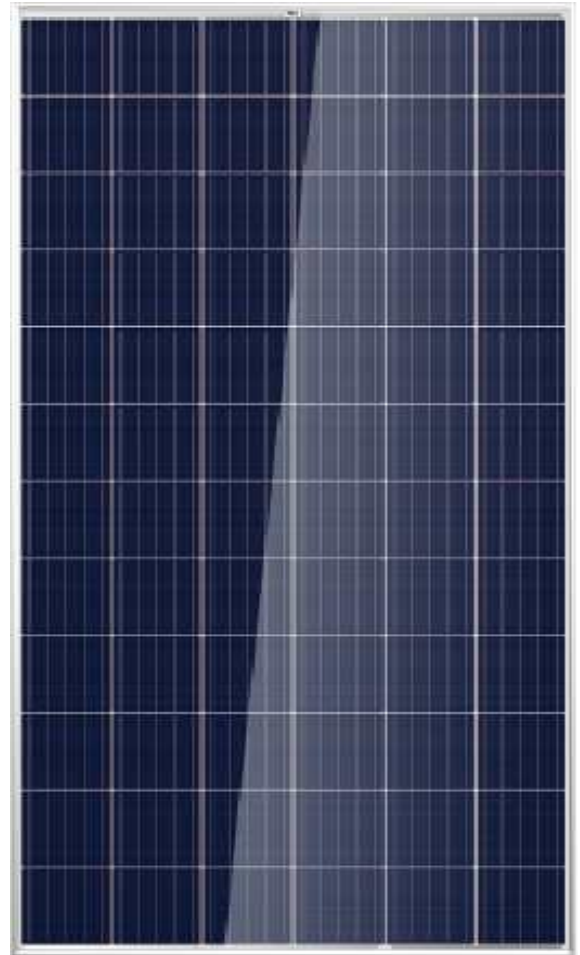
Anti-reflective, hydrophobic coating improves light absorption and reduces surface dust



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)\*



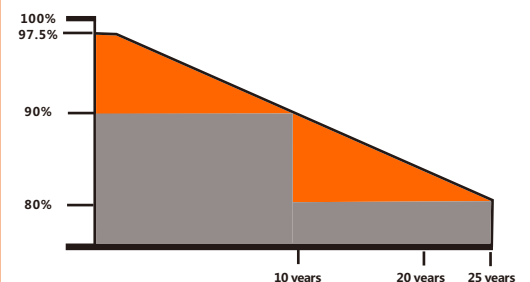
## All-Purpose Module

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 solar needs.



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

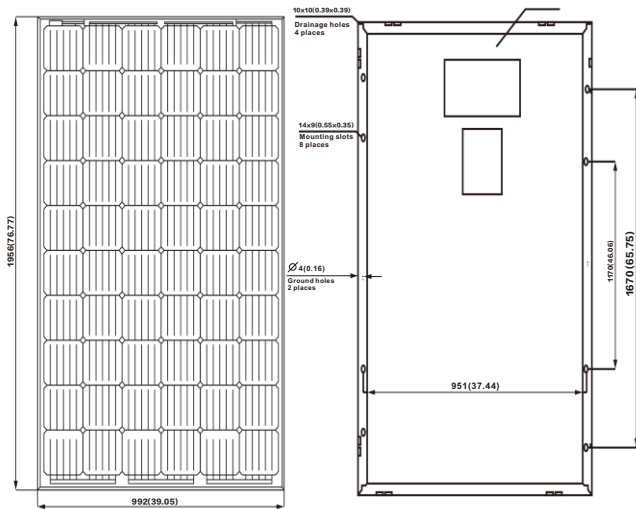
## Industry-leading warranty



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

# RS6S-P

300/305/310/315/320/325P

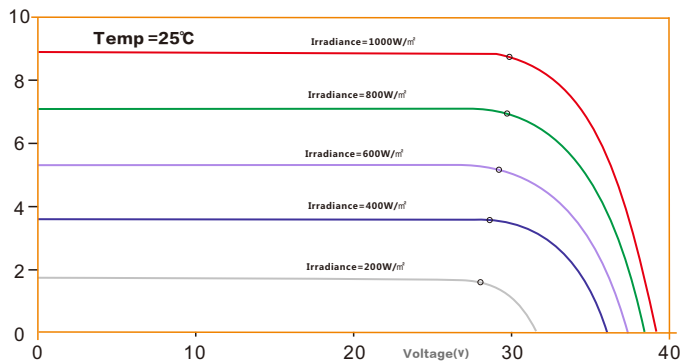


## Electrical Data

STC	RS6S 300P	RS6S 305P	RS6S 310P	RS6S 315P	RS6S 320P	RS6S 325P
<b>Nominal Maximum</b>	300W	305W	310W	315W	320W	325W
<b>Optimum Operating</b>	36.4V	36.6V	36.8V	37.1V	37.3V	37.4V
<b>Optimum Operating</b>	8.24A	8.33A	8.42A	8.49A	8.58A	8.69A
<b>Open CIRCUIT voltage(Voc)</b>	43.7A	43.9A	44.2A	44.5A	44.8A	44.9A
<b>Short Circuit Current(Isc)</b>	9.06A	9.17A	9.26A	9.34A	9.43A	9.56A
<b>Module Efficiency</b>	15.51%	15.77%	16.03%	16.28%	16.54%	16.80%
<b>Operating Temperature</b>	-40°C~ +85°C					
<b>Maximum System Voltage</b>	1000V(IEC)/600V(UL)					
<b>Maximum Series Fuse Rating</b>	15A					
<b>Application Classification</b>	Class A					
<b>Power Tolerance</b>	0~ +5W					

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

## IV-Curves



NOCT	RS6S 300P	RS6S 305P	RS6S 310P	RS6S 315P	RS6S 320P	RS6S 325P
<b>Nominal Maximum Power(Pmax)</b>	221W	224W	228W	234W	238W	243W
<b>Optimum Operating Voltage(Vmp)</b>	33.6V	33.8V	34.1V	34.4V	34.6V	34.9V
<b>Optimum Operating Current(Imp)</b>	6.58A	6.63A	6.69A	6.81A	6.88A	6.96A
<b>Open Circuit voltage(Voc)</b>	42.0A	42.2A	42.3A	42.4A	42.4A	42.7A
<b>Short Circuit Current(Isc)</b>	7.03A	7.12A	7.20A	7.29A	7.47A	7.58A

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

## Mechanical Data

<b>Cell Type</b>	Poly-crystalline 156 x 156mm, 4 or 5 Bus bars
<b>Cell Arrangement</b>	72 (6x12)
<b>Dimensions</b>	1956x992x40mm (76.77x39.05x1.57in)
<b>Weight</b>	22kg
<b>Front Cover</b>	3.2mm Tempered Glass
<b>Frame Material</b>	Anodized Aluminum Alloy
<b>J-BOX</b>	IP65 or IP67, 6 Diodes
<b>Cable</b>	4mm2(IEC)/12AWG(UL), 1150mm
<b>Connectors</b>	Mc4 or MC4 Comparable
<b>Standard Packaging (Modules per Pallet)</b>	27pcs
<b>Module Pieces per container(40HQ)</b>	624pcs(40'HQ)

## Temperature Characteristics

<b>Nominal Operating Cell Temperature(NOCT)</b>	45±2°C
<b>Temperature Coefficient of Pmax</b>	-0.43%/°C
<b>Temperature Coefficient of Voc</b>	-0.34%/°C
<b>Temperature Coefficient of Isc</b>	0.065%/°C

## Packing Configuration

Container	20' GP	40' HQ
<b>Pieces</b>	310	760

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