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# EnergyPal

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

**Jiangyin Shine Science and Technology Co., Ltd.**

**SS310-72M**

**SS280-72M**

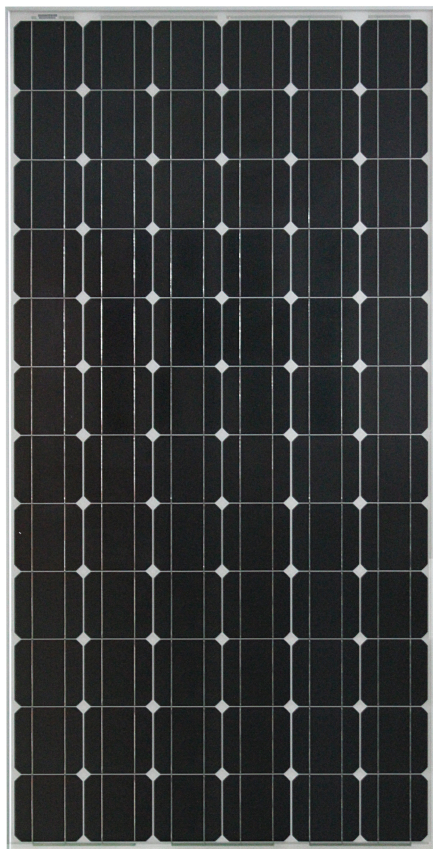
Also available on the web at  
[EnergyPal.com/jiangyin-shine-science-and-technology-co-ltd-solar-panels/ss280-72m](http://EnergyPal.com/jiangyin-shine-science-and-technology-co-ltd-solar-panels/ss280-72m)



# Monocrystalline Solar Module---SSxxx-72M

## SS310-72M

SS305-72M SS300-72M  
SS295-72M SS290-72M  
SS285-72M SS280-72M



### KEY FEATURES

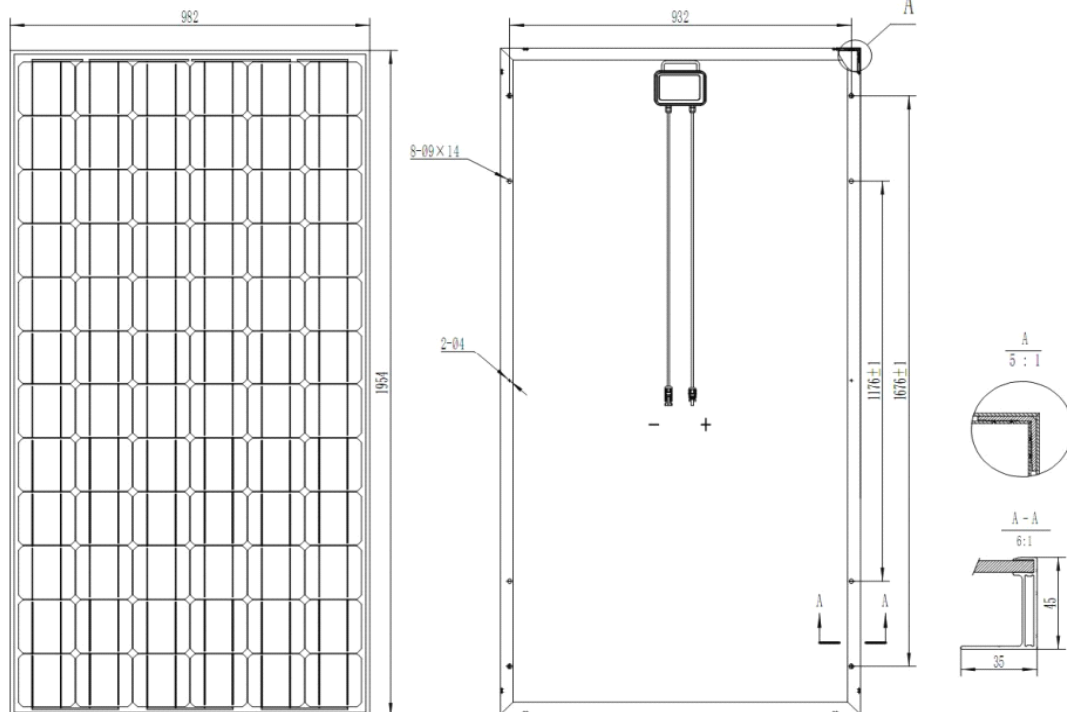
- Guaranteed positive tolerance 0/+5W ensures output reliability
- Strong aluminum frames can bear snow loads up to 5400Pa and wind loads up to 2400Pa.
- Excellent performance under low light environments(morning evenings and cloudy days).
- 12 years for product defects in materials and workmanship and 25 years for 80% of warranted minimum power.
- Certifications and standards: IEC61215, IEC61730, conformity to CE.
- Manufactured according to International Quality(ISO9001).



### Electrical Characteristics

All specified Parameters are at STC 25°C Ambient, 1000W/m<sup>2</sup> irradiance and AM 1.5

Type		SS280-72M	SS285-72M	SS290-72M	SS295-72M	SS300-72M	SS305-72M	SS310-72M
Max-Power	Pm(W)	280	285	290	295	300	305	310
Module Power Range	(W)	285>Pm≥280	290>Pm≥285	295>Pm≥290	300>Pm≥295	305>Pm≥300	310>Pm≥305	315>Pm≥310
Power Tolerance	(W)	+0~+5	+0~+5	+0~+5	+0~+5	+0~+5	+0~+5	+0~+5
Max-Power Voltage	Vm(V)	36.1	36.2	36.3	36.4	36.5	36.6	36.7
Max-Power Current	Im(A)	7.76	7.88	8.00	8.11	8.22	8.33	8.45
Open-Circuit Voltage	Voc(V)	44.5	44.6	44.7	44.8	44.9	50.0	50.1
Short-Circuit Current	Isc(A)	8.28	8.39	8.50	8.61	8.72	8.83	8.94
Cell Efficiency	(%)	17.0	17.3	17.6	17.9	18.2	18.5	18.8
Module Efficiency	(%)	14.6	14.9	15.1	15.4	15.6	15.9	16.1
Max-System Voltage	(VDC)	1000V(IEC)						
Max.Series Fuse	(A)	15						
Pm Temperature Coefficients	(%/°C)	-0.4677						
Isc Temperature Coefficients	(%/°C)	0.0492						
Voc Temperature Coefficients	(%/°C)	-0.3374						
NOCT	Nominal Operating Cell Temperature	45±2°C						
Maximum load rating		5400Pa						



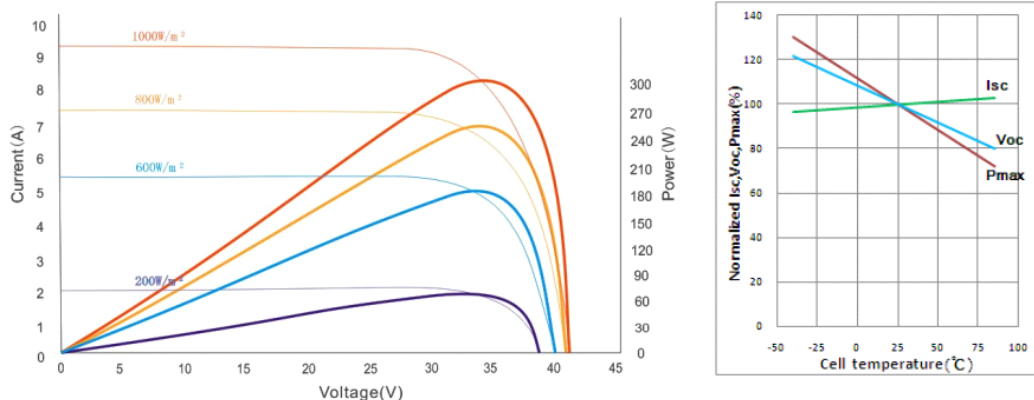
## Packaging Configuration

Packing Configuration	22 pcs/box
Quantity/Pallet	44 pcs/pallet
Loading Capacity	552 pcs/40ft(H)

## Absolute Ratings

Dielectric Insulation Voltage	3000V
Operating Temperature (°C)	-40~+85
Storage Temperature (°C)	-40~+85

## I-V Curves



I-V Curves at different Irradiances (AM1.5 25°C)

Specifications included in this datasheet are subject to change without prior notice

## Mechanical Characteristics

Cable type, Diameter and Length	4mm <sup>2</sup> , TUV certified, 900mm
Type of Connector	Compatible with 05-6 plug
Number, type and arrangement of cells	72pcs, Mono-Crystalline Silicon(6×12)
Cell Size (mm)	156×156(D200)
Dimension (mm)	1954×982×45
Weight (Kg)	28
No.of Draining Holes in Frame	10
Glass, Type and Thickness	High Transmission, Low Iron, Tempered Glass 4.0mm

Jiangyin Shine Science and Technology Co., Ltd  
 NO.1199 Bingjiang Road(W), Jiangyin, Jiangsu,  
 214444, China

Tel: +86-510-66285883

Fax: +86-510-66285882

E-mail: [sales@shine-solar.com.cn](mailto:sales@shine-solar.com.cn)