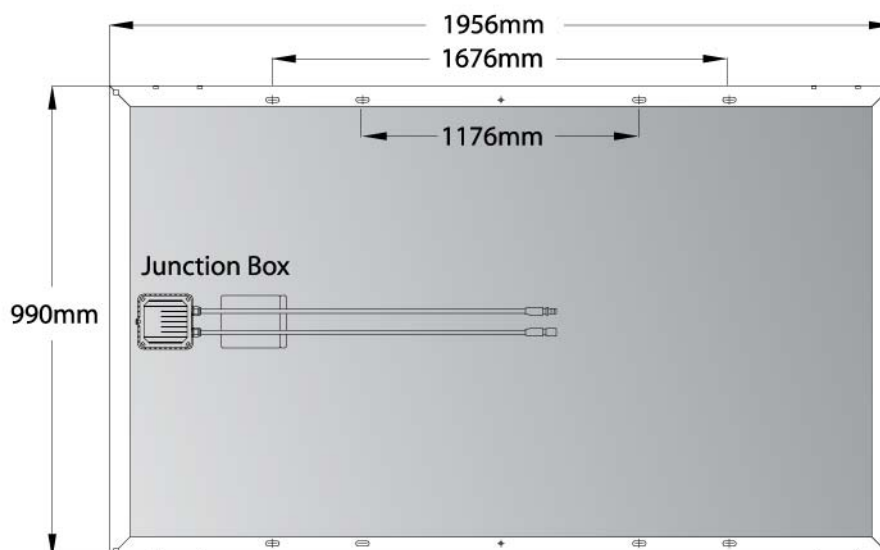


## Specifications of SST280-72M Monocrystalline solar module

Type	300-72M	295-72M	290-72M	285-72M	280-72M	275-72M	270-72M	265-72M	260-72M	255-72M
Peak power (Pm)	300	295	290	285	280	275	270	265	260	255
Open circuit voltage (Voc)	44.8	44.6	44.5	44.4	44.2	44.1	43.9	43.8	43.7	43.5
Short circuit current (Isc)	8.80	8.73	8.68	8.59	8.53	8.46	8.39	8.31	8.23	8.16
Optimum operating voltage (Vmp)	36.1	35.9	35.8	35.7	35.5	35.3	35.1	35.0	34.8	34.7
Optimum operating current (Imp)	8.32	8.22	8.11	7.99	7.89	7.80	7.70	7.58	7.48	7.35
Cell efficiency	17.44%	17.15%	16.86%	16.57%	16.27%	15.98%	15.69%	15.40%	15.11%	14.82%
Maximum system voltage [V]	1000									
Voltage temperature coefficients	-0.37%/K									
Current temperature coefficients	+0.03%/K									
Power temperature coefficients	-0.52%/K									
Series fuse rating[A]	15									
Cells	6×12 pieces monocrystalline solar cells series strings (156mm×156mm)									
Junction box	with 6 bypass diodes									
Cable	length 900 mm, 1×4 mm <sup>2</sup>									
Front glass	White toughened safety glass, 3.2 mm									
Cell encapsulation	EVA (Ethylene-Vinyl-Acetate)									
Back	composite film									
Frame	Anodised aluminum profile									
Dimensions	1956×990×50mm (L×W×H)									
Weight	23.7Kg									
Maximum surface load capacity	tested up to 2,400 Pa according to IEC 61215									
Hail	maximum diameter of 25 mm with impact speed of 23 m·s <sup>-1</sup>									
Temperature range	- 40 °C to + 85 °C									

The electrical data relates to standard test conditions [STC]: 1,000 W/m<sup>2</sup>; AM 1.5; 25°C.  
 Performance deviation of P<sub>mp</sub>: ±3%; Performance deviation of Voc, Isc, Vmp and Imp: ±10%.  
 Certified in accordance with IEC 61215, IEC 61730-1/2.

## Dimensions



Our standard modules are designed, developed and manufactured for both residential and commercial, rooftop and ground-mounted, as well as on-grid and off-grid photovoltaic projects.

Quality is the life of our product. We select the best raw materials and conduct highly regular testing to ensure that it meets our rigorous quality standards. Every module will be tested before delivery to make sure the efficiency tolerance is in a narrow range. Each link is strictly controlled to ensure the benefit of our customers.

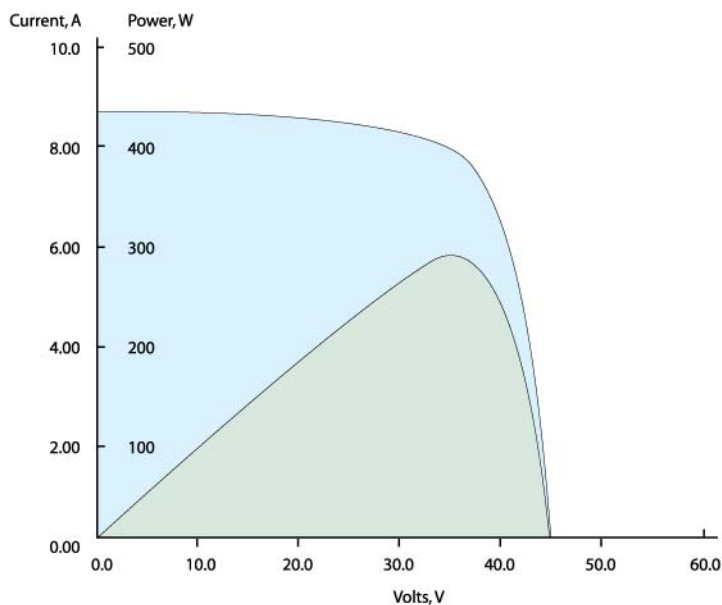
We will keep devoting ourselves to the delivery of the most reliable, highest-efficiency and most cost-effective PV modules.



## Features

- 72 high-efficiency monocrystalline solar cells;
- Anodized aluminum frame improves load-resistance capabilities for high wind pressure and snow load;
- The high-transparency low-iron tempered glass allows maximum light permeability while enhancing stiffness and impact resistance;
- The interconnected cells are embedded in ultra transparent EVA with multilayer backsheets for additional weather protection;
- Integrated bypass diodes to protect the solar cell circuit from hot spots during partial shadowing;
- Advanced module technology ensures that there are no problems of water freezing and warping;
- Low power tolerance of +/-3% helps increase output power, by reducing module string mismatch losses;
- 5-year hardware warranty;
- 25-year power output warranty.

## Characteristics



SPI-Sun Simulator4600

Title: SST280-72M  
Isc = 8.591 A  
Voc = 44.142 V  
Pm = 278.218 W  
Im = 7.949 A  
Vm = 35.014 V  
FF = 73.17%  
η = 16.17%  
Rs = 0.75 Ω  
Rsh = 104.81 Ω