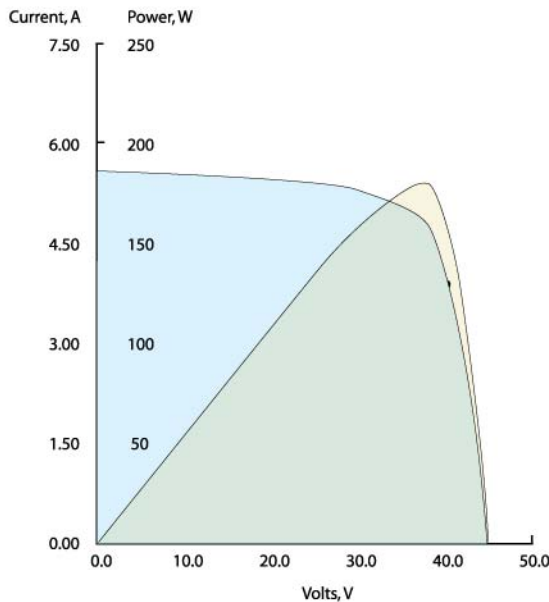


## SE Module Specifications

Type	SE.190W	SE.185W	SE.180W
Peak Power (Pm)	190	185	180
Open Circuit Voltage (Voc)	45.0	44.8	44.6
Short Circuit Current (Isc)	5.50	5.48	5.40
Optimum operating Voltage (Vmp)	36.2	35.8	35.4
Optimum operating Current (Imp)	5.25	5.17	5.09
Cell efficiency	17.76%	17.29%	16.83%
Maximum system voitag [V]	1000(IEC)/600(UL)		
Voltage temperature coefficients	-0.37%/K		
Current temperature coefficients	+0.03%/K		
Power temperature coefficients	-0.52%/K		
Series fuse rating[A]	10		
Cells	6x12 pieces monocrystalline solar cells series strings (125mmx125mm)		
Junction box	with 3 bypass diodes		
Cable	length 900 mm, 1x4 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	1580x808x50mm(LxWxH)		
Weight	16Kg		
Maximum surface load capacity	tested up to 2,400 Pa according to IEC 61215 tested up to 5,400 Pa according to IEC 61215 (advanced test)		
Hail	maximum diameter of 25 mm with impact speed of 23 m·s <sup>-1</sup>		
Temperature range	- 40 °C to + 90 °C		

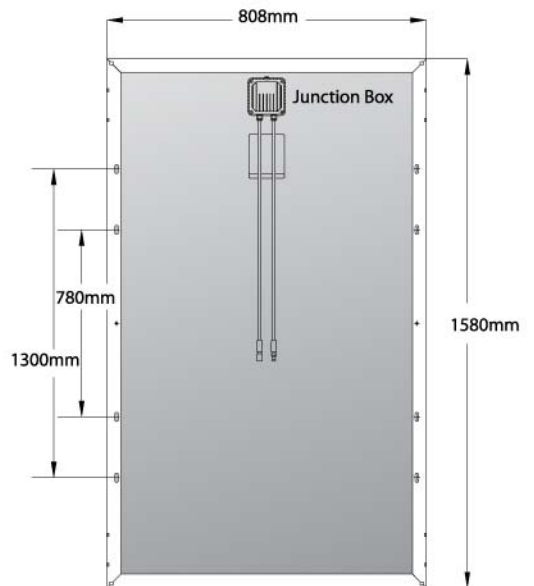
The electrical data relates to standard test conditions [STC]: 1,000 W/m<sup>2</sup>; AM 1.5; 25°C.  
 Performance deviation of Pm<sub>pp</sub>: ±3%; Performance deviation of Voc, Isc, Vmp and Imp: ±10%.  
 Certified in accordance with IEC 61215, IEC 61730-1/2 and UL 1703.

## Characteristics



SPI-Sun Simulator4600  
 Title: SE  
 Comment: SHANGHAI  
 Operator: Admin  
 ID: SST1081200509  
 Module Type: Module Type1  
 14:42:05 21/5/2009  
 Tested at:  
 Temp = 25.1 degC  
 Corrected to:  
 Temp = 25.0 degC  
 Voc = 44.90 V  
 Isc = 5.45 A  
 Pmax = 183.79 W  
 Vpm = 36.47 V  
 Ipm = 5.04 A  
 FF = 0.75  
 Eff,m = 14.40%  
 Eff,c = 17.18%

## Dimensions



## Revolutionary Product — Selective Emitter™ Solar Module

Same module size,  
same exposure time,  
10% more Power output!

Made of CSUN SE cells, lower power loss during encapsulation, CEEG SE modules have an exceptional high conversion efficiency. Users benefit from up to 10% more power output compared to normal modules with the same size and exposure time.

CEEG SE modules are the best economical choice for systems built with limited space.



## Features

- High reliability
- High conversion efficiency, very close to the efficiency of the cells before encapsulation
- Excellent low-light performance
- Preventing damages by hot spot effect
- Anti-freezing and warping with unique technology
- Safe and reliable cables and connectors
- 5-year hardware warranty
- 25-year power output warranty

