

# Caymax™ Modules

## Revolutionary Product —Selective Emitter™ Solar Module

Same module size,  
 Same exposure time,  
 10% more power output!



Made of CSUN SE high efficiency solar cells\*, Caymax™ SE modules can deliver you 10% higher efficiency\*\*. Especially, you could benefit **MORE** from the excellent performance under the low light condition and low hot spot effect, and get **LESS** degradation under light exposure.

**MORE - LESS = ?** You know how to choose!

### □ Features

- High conversion efficiency;
- Low power tolerance of ±3%;
- Excellent performance under low lighting conditions;
- Low hot spot effect, due to low reverse current density;
- Low degradation under light exposure;
- Low cell performance mismatch during encapsulation, our SE module demonstrates high power output, which is very close to the power generated by the whole cells before encapsulation;
- Passing mechanical load test of 5400Pa according to IEC 61215;
- Tested to withstand hails with maximum diameter of 25mm and impact speed of 23m·s<sup>-1</sup>.

### □ Quality and Certificates

- 5 year hardware warranty;
- 25 year power output warranty\*\*\*;



### Certification



\* Average efficiency of 17.5%, up to 18%.

\*\*compared to modules with the same size, made of normal P-type solar cells, average efficiency of which is 16%.

\*\*\*10 years at 90% of the minimal rated power output, 20years at 83% and 25 years at 80% of the minimal rated power output.

## □ Specifications of SE module

Type	SE-195W	SE-190W	SE-185W
Peak Power (Pm)	195	190	185
Open Circuit Voltage (Voc)	45.1	45.0	44.8
Short Circuit Current (Isc)	5.53	5.50	5.48
Optimum operating Voltage (Vmp)	36.5	36.2	35.8
Optimum operating Current (Imp)	5.34	5.25	5.17
Practical module efficiency	18.23%	17.76%	17.29%
CEC	Testing	168.6W	165.6W
Maximum system voltage [V]	1000(IEC)/600(UL)		
Voltage temperature coefficients	-0.307%/K		
Current temperature coefficients	+0.039%/K		
Power temperature coefficients	-0.423%/K		
Series fuse rating[A]	10		
Cells	6×12 pieces monocrystalline solar cells series strings 125mm×125mm(5inch)		
Junction box	with 6 bypass diodes		
Cable	length 900 mm(35.4inch), 1×4 mm <sup>2</sup> (0.16inch <sup>2</sup> )		
Front glass	white toughened safety glass, 3.2 mm(1/8inch)		
Cell encapsulation	EVA (Ethylene-Vinyl-Acetate)		
Back	composite film		
Frame	anodised aluminium profile		
Dimensions	<sup>a</sup> [L×W×H] 1580×808×35mm(62.2×31.81×1.38inch)		
	<sup>b</sup> [L×W×H] 1580×808×50mm(62.2×31.81×1.97inch)		
Weight	<sup>a</sup> 15.6kg (34.4lbs) <sup>b</sup> 16Kg (35.27lbs)		

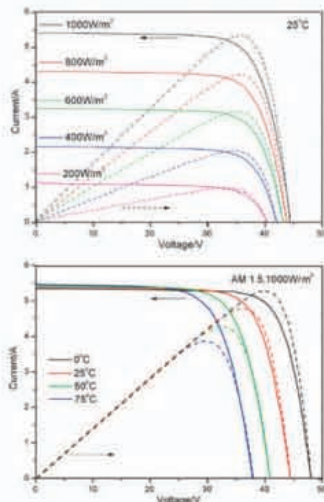
The electrical data relates to standard test conditions [STC]: 1,000 W/m<sup>2</sup>; AM 1.5; 25°C.

Performance deviation of Pmpp: ±3%; Performance deviation of Voc, Isc, Vmp and Imp: ±10%.

## □ Operating Condition & Packaging

<b>Maximum surface load capacity</b>	tested up to 2,400 Pa according to IEC 61215 <sup>a</sup> tested up to 5,400 Pa according to IEC 61215 <sup>b</sup>
<b>Hail</b>	maximum diameter of 25 mm with impact speed of 23 m·s <sup>-1</sup> (51.2mph)
<b>Temperature range</b>	- 40 °C to + 85 °C

## □ IV-Curves



## □ Dimensions

