
**CS6P**
**170/180/190/200**
**e-Module**

### On-grid Module

e-Module CS6P is a robust solar module with 60 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 Canadian Solar's modules meet the highest quality standards possible.

### Customer Values

- **Economical solar modules** with best performance-to-price ratio and fast return of investment (ROI)
- **Environmentally friendly production**, non-toxic and no potential environmental and legal risks

### Key Features

- Strong frame, passing mechanical load test of 5400Pa, instead of the normal 2400Pa, to withstand heavier snow load and higher wind-pressure
- Industry leading power tolerance :  $\pm 5W$  ( $\pm 2.5\%$ )
- 25 years performance warranty
- The 1st manufacturer in PV industry to apply ISO:TS16949 (The automotive quality management system) in module production

ISO17025 qualified manufacturer owned

- testing lab (pending), fully complying to IEC, TUV, UL testing standards

### Applications

- On-grid residential roof-tops
- On-grid commercial/industrial roof-tops
- Solar power stations
- Other on-grid applications

### Quality Certificates

- IEC 61215, IEC 61730, TUV Safety Class II, UL 1703, CE
- ISO9001:2000: Standards for quality management systems
- ISO/TS16949:2002: The automotive quality management system
- QC080000 HSPM: The Certification for Hazardous Substances Regulations



# CS6P-170/180/190/200 e-Module

## Electrical Data

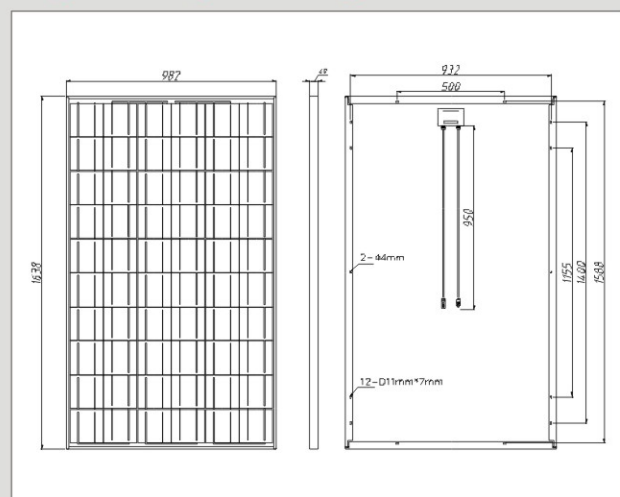
|                                     | CS6P-170                | CS6P-180   | CS6P-190 | CS6P-200 |
|-------------------------------------|-------------------------|------------|----------|----------|
| Nominal Maximum Power at STC (Pmax) | 170W                    | 180W       | 190W     | 200W     |
| Optimum Operating Voltage (Vmp)     | 28.7V                   | 28.7V      | 28.8V    | 28.9V    |
| Optimum Operating Current (Imp)     | 5.93A                   | 6.26A      | 6.60A    | 6.93A    |
| Open Circuit Voltage (Voc)          | 35.8V                   | 35.9V      | 36.0V    | 36.2V    |
| Short Circuit Voltage (Isc)         | 6.62A                   | 6.98A      | 7.33A    | 7.68A    |
| Operating Temperature               | -40°C~+85°C             |            |          |          |
| Maximum System Voltage              | 1,000V (IEC) /600V (UL) |            |          |          |
| Maximum Series Fuse Rating          | 15A                     |            |          |          |
| Power Tolerance                     | ± 5W                    |            |          |          |
| Temperature Coefficient             | Pmax                    | -0.45%/°C  |          |          |
|                                     | Voc                     | -0.35 %/°C |          |          |
|                                     | Isc                     | 0.060 %/°C |          |          |
|                                     | NOCT                    | 45°C       |          |          |

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

## Mechanical Data

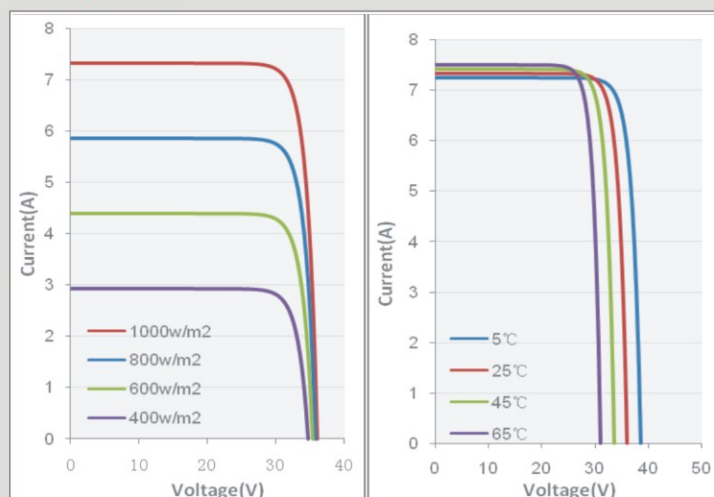
|                                |                          |
|--------------------------------|--------------------------|
| Cell Type                      | Solar Grade Silicon      |
| Cell Arrangement               | 60 (6*10)                |
| Dimensions                     | 1638mm*982mm*40mm        |
| Weight                         | 18.5kg                   |
| Front Cover                    | Tempered glass           |
| Frame Material                 | Anodized aluminium alloy |
| Packaging (Modules per Pallet) | 20pcs                    |

## Engineering Drawings



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

## I-V Curves



## About Canadian Solar

Canadian Solar is a vertically-integrated manufacturer of silicon ingots, wafers, cells, solar modules and custom-designed solar power applications. Canadian Solar was founded in Canada in 2001 and was successfully listed on NASDAQ Exchange (symbol: CSIQ) in November 2006.

By the end of 2008, Canadian Solar has a module capacity of over 600MW. With revenues over 700 million dollars in 2008, a 133% growth in revenue over 2007, Canadian Solar has become one of the fastest-growing companies in the solar industry.

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