

CS6A

150/160/170 PE
e-Module

On-grid Module

CS6A-PE is a robust solar module with 48 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

- 6 years product warranty (materials and workmanship); 25 years module power output warranty
- Industry leading power tolerance : $\pm 5W$ ($\pm 2.9\%$)
- Strong framed module, passing mechanical load test of 5400Pa to withstand heavier snow load
- The 1st manufacturer in PV industry certified for ISO:TS16949 (The automotive quality management system) in module production since 2003
- ISO17025 qualified manufacturer owned testing lab, 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, 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



CS6A-150/160/170 PE e-Module

Electrical Data

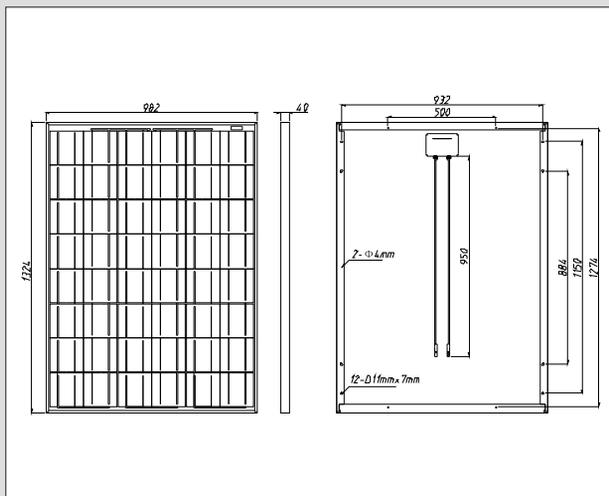
| | | CS6A-150PE | CS6A-160PE | CS6A-170PE |
|-------------------------------------|------|-------------------------|------------|------------|
| Nominal Maximum Power at STC (Pmax) | | 150W | 160W | 170W |
| Optimum Operating Voltage (Vmp) | | 23.1V | 23.1V | 23.2V |
| Optimum Operating Current (Imp) | | 6.50A | 6.92A | 7.33A |
| Open Circuit Voltage (Voc) | | 28.8V | 28.9V | 29.2V |
| Short Circuit Current (Isc) | | 7.12A | 7.51A | 7.85A |
| 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 | -0.42%/°C | | |
| | Voc | -0.35 %/°C | | |
| | Isc | 0.08 %/°C | | |
| | NOCT | 45°C | | |

Under Standard Test Conditions (STC) of irradiance of 1000W/m², spectrum AM 1.5 and cell temperature of 25°C

Mechanical Data

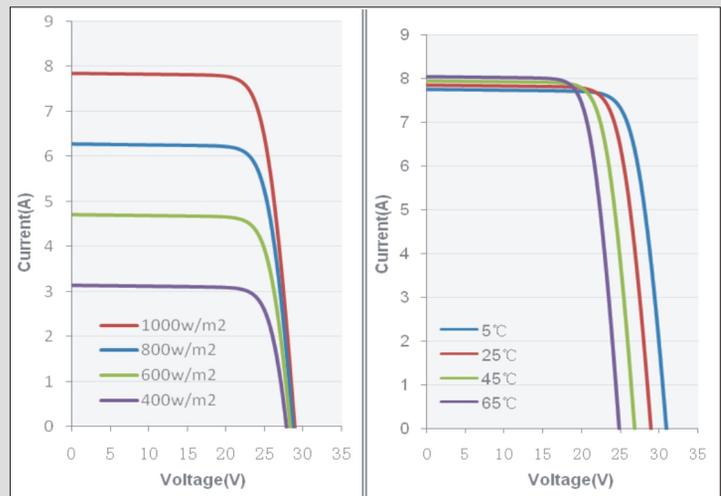
| | |
|---|--|
| Cell Type | Poly-crystalline Solar Grade Silicon |
| Cell Arrangement | 48 (6 x 8) |
| Dimensions | 1324 x 982 x 40mm (52.1 x 38.7 x 1.57in) |
| Weight | 16kg (35.3 lbs) |
| Front Cover | Tempered glass |
| Frame Material | Anodized aluminium alloy |
| Standard Packaging (Modules per Pallet) | 20pcs |

Engineering Drawings



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

I-V Curves (CS6A-170PE)



About Canadian Solar

Canadian Solar is a vertically-integrated manufacturer of 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 revenue of 709.2 million dollars in 2008, a 134% growth in revenue over 2007, Canadian Solar has become one of the fastest-growing companies in the solar industry.

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