

## CS6A

**150/155/160/165/170 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 plus only power tolerance: +5W (+2.9%)
- Strong framed module, passing mechanical load test of 5400Pa to withstand heavier snow load
- The 1st manufacturer in the 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, UL1703, CEC Listed, JET, CE, CQC
- ISO9001: 2008: Standards for quality management systems
- ISO/TS16949: 2009: The automotive quality management system
- QC080000 HSPM: The Certification for Hazardous Substances Regulations



# CS6A-150/155/160/165/170 PE e-Module

## Electrical Data

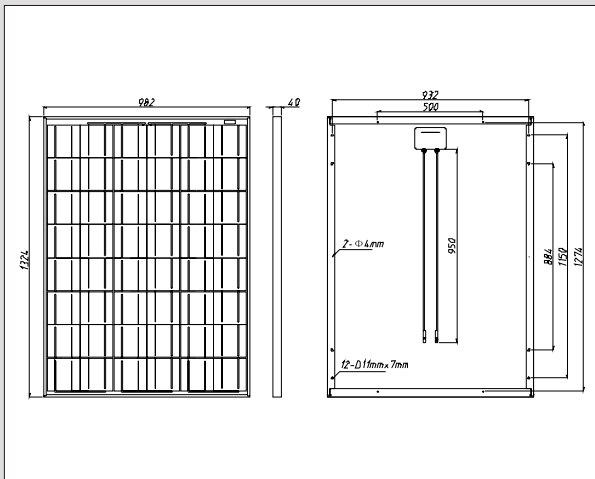
	CS6A-150PE	CS6A-155PE	CS6A-160PE	CS6A-165PE	CS6A-170PE
Nominal Maximum Power at STC (Pmax)	150W	155W	160W	165W	170W
Optimum Operating Voltage (Vmp)	22.9V	22.9V	23.1V	23.1V	23.2V
Optimum Operating Current (Imp)	6.56A	6.76A	6.93A	7.13A	7.32A
Open Circuit Voltage (Voc)	28.8V	28.8V	28.9V	29.0V	29.2V
Short Circuit Current (Isc)	7.35A	7.51A	7.67A	7.82A	7.92A
Operating Temperature	-40°C~+85°C				
Maximum System Voltage	1000V (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/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C

## Mechanical Data

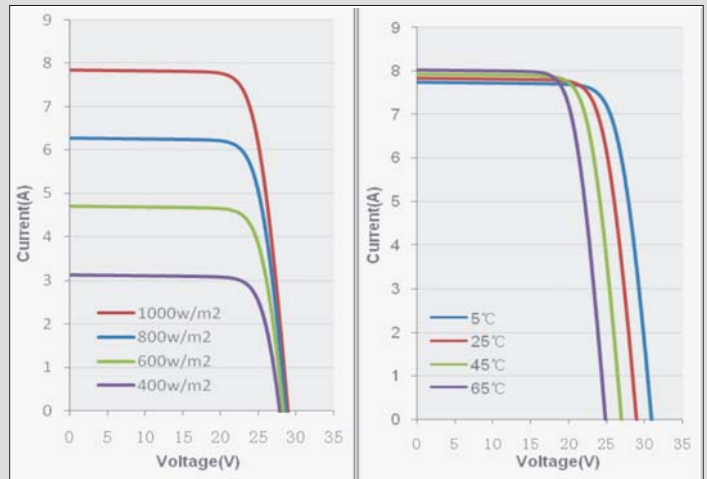
Cell Type	Poly-crystalline Solar Grade Silicon
Cell Arrangement	48 (6 x 8)
Dimensions	1324 x 982 x 40mm (52.1 x 38.7 x 1.57in)
Weight	16kg (35.3 lbs)
Front Cover	Tempered glass
Frame Material	Anodized aluminium alloy
Standard Packaging (Modules per Pallet)	20pcs

## Engineering Drawings



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

## I-V Curves (CS6A-170PE)



EN-Rev 3.11 Copyright © 2010 Canadian Solar Inc.

## About Canadian Solar

Canadian Solar Inc. is one of the world's largest solar companies. As a leading vertically-integrated manufacturer of ingots, wafers, cells, solar modules and solar systems. Canadian Solar delivers solar power products of uncompromising quality to worldwide customers. Canadian Solar's world class team of professionals works closely with our customers to provide them with solutions for all their solar needs.

Canadian Solar was founded in Canada in 2001 and was successfully listed on NASDAQ Exchange (symbol: CSIQ) in November 2006. Canadian Solar is on track to expand cell capacity to 700MW and module capacity to 1.3GW in 2010.

Headquarters | 650 Riverbend Drive, Suite B Kitchener, Ontario  
Canada N2K 3S2 | Tel: +1-519-954-2057 | Fax: +1-519-578-2097  
inquire.ca@canadiansolar.com

European Office | Canadian Solar Deutschland GmbH |  
Landsberger Strasse 94 | 80339 Munich | Germany  
Tel: +49 (0) 89 - 51 996 89 - 0 | Fax: +49(0) 89 - 51 996 89 - 11  
inquire.eu@canadiansolar.com