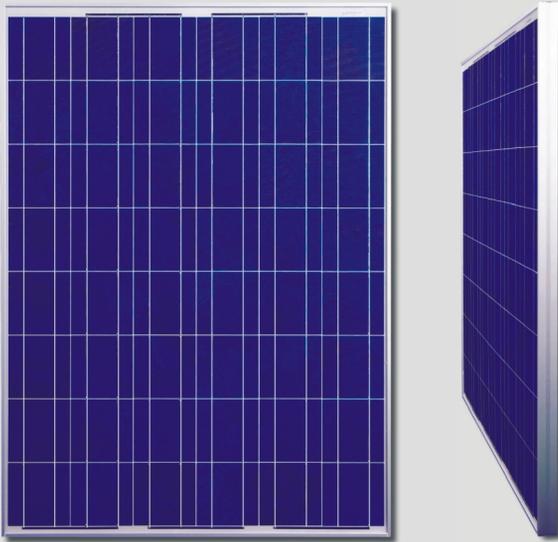


# CS6A

## 160/170/180



### Key Features

- 6 years product warranty (materials and workmanship); 25 years module power output warranty
- Industry leading power tolerance :  $\pm 5W$  ( $\pm 2.8\%$ )
- 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

### On-grid Module

CS6A 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.

### 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



# CS6A-160/170/180

## Electrical Data

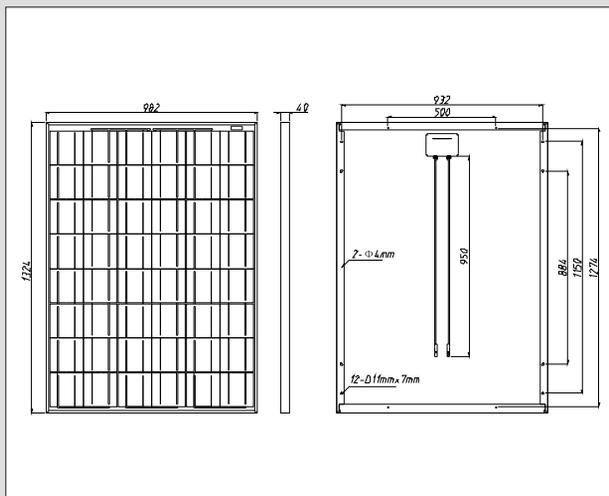
		CS6A-160P CS6A-160M	CS6A-170P CS6A-170M	CS6A-180P CS6A-180M
Nominal Maximum Power at STC (Pmax)		160W	170W	180W
Optimum Operating Voltage (Vmp)		23.1V	23.2V	23.6V
Optimum Operating Current (Imp)		6.92A	7.33A	7.62A
Open Circuit Voltage (Voc)		28.9V	29.2V	29.4V
Short Circuit Current (Isc)		7.51A	7.85A	8.20A
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

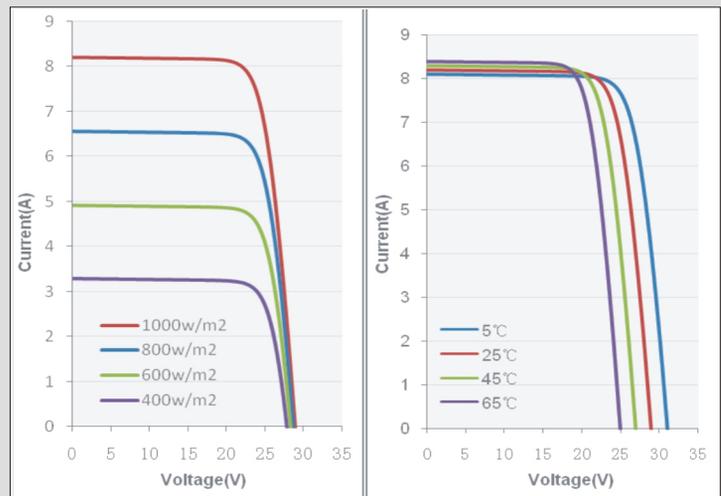
Cell Type	Poly-crystalline / Mono-crystalline
Cell Arrangement	48 (6 x 8)
Dimensions	1324 x 982 x 40mm (52.1 x 38.7 x 1.57in)
Weight	16kg (35.3 lbs)
Front Cover	Tempered glass
Frame Material	Anodized aluminium alloy
Standard Packaging (Modules per Pallet)	20pcs

## Engineering Drawings



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

## I-V Curves (CS6A-180P)



## 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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