

CS6A

160/165/170/175/180/185M

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.

Key Features

- 6 years product warranty (materials and workmanship); 25 years module power output warranty
- Industry leading plus only power tolerance: +5W (+2.7%)
- 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, UL 1703, CE
- ISO9001: 2008: Standards for quality management systems
- ISO/TS16949:2009: The automotive quality management system
- QC080000 HSPM: The Certification for Hazardous Substances Regulations



CS6A-160/165/170/175/180/185M

Electrical Data

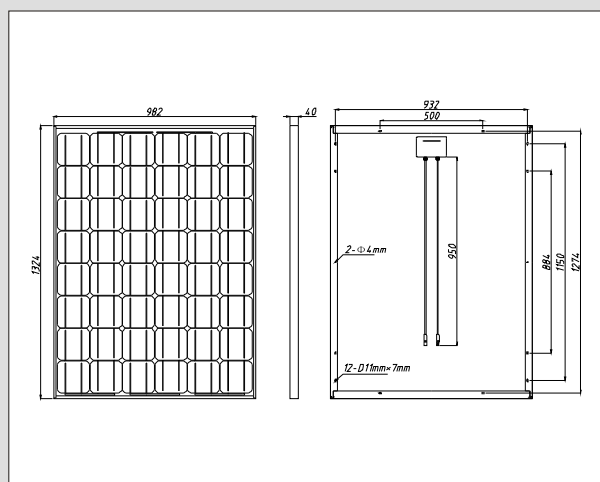
	CS6A-160M	CS6A-165M	CS6A-170M	CS6A-175M	CS6A-180M	CS6A-185M
Nominal Maximum Power at STC (Pmax)	160W	165W	170W	175W	180W	185W
Optimum Operating Voltage (Vmp)	23.3V	23.4V	23.5V	23.6V	23.8V	23.9V
Optimum Operating Current (Imp)	6.86A	7.06A	7.24A	7.41A	7.58A	7.74A
Open Circuit Voltage (Voc)	29.2V	29.2V	29.4V	29.5V	29.6V	29.7V
Short Circuit Current (Isc)	7.56A	7.71A	7.80A	7.92A	8.07A	8.26A
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/m², spectrum AM 1.5 and cell temperature of 25°C

Mechanical Data

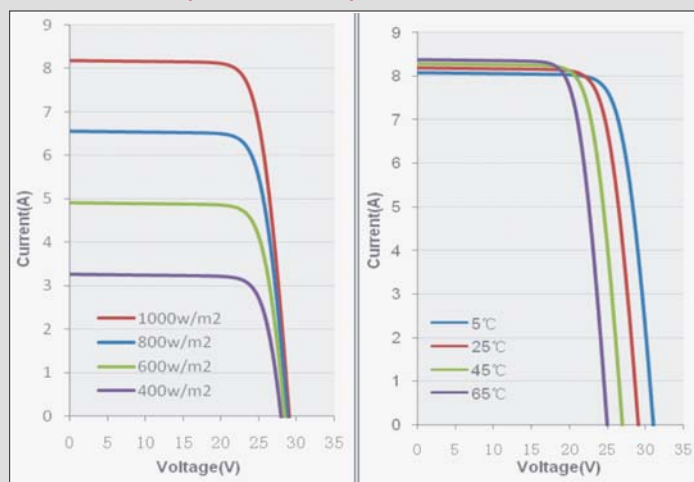
Cell Type	Mono-crystalline
Cell Arrangement	48 (6 x 8)
Dimensions	1324 x 982 x 40mm (52.1 x 38.7 x 1.57in)
Weight	16kg (35.3 lbs)
Front Cover	Tempered glass
Frame Material	Anodized aluminium alloy
Standard Packaging (Modules per Pallet)	20pcs

Engineering Drawings



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

I-V Curves (CS6A-180M)



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. In 2009, Canadian Solar's full year shipment was 325.5 MW with a module capacity of 820MW.

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