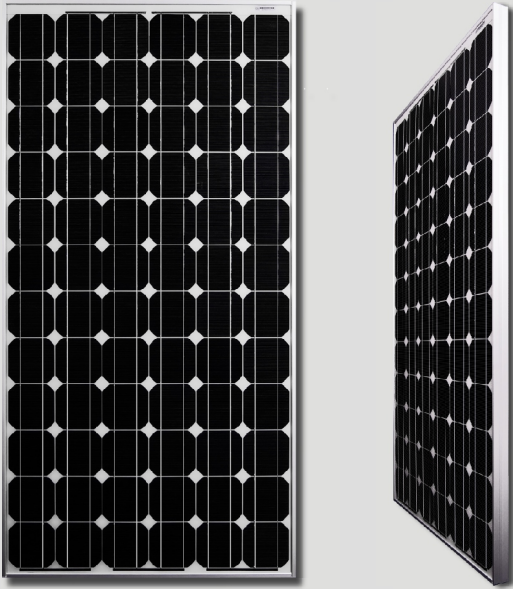


# CS5A

170/175/180/185/190/195/200M



## Key Features

- 6 years product warranty (materials and workmanship); 25 years module power output warranty
- Industry leading plus only power tolerance: +5W (+2.5%)
- 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

## All-purpose Module

CS5A is a robust all-purpose solar module with 72 solar cells. These modules can be used for on-grid and off-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 and off-grid residential roof-tops
- On-grid and off-grid commercial/industrial roof-tops
- Rural area applications
- Solar power stations
- Other on-grid and off-grid applications

## Quality Certificates

- IEC 61215, IEC61730, UL 1703, CEC Listed, CE
- ISO9001:2008: Standards for quality management systems
- ISO/TS16949:2009: The automotive quality management system
- QC080000 HSPM: The Certification for Hazardous Substances Regulations



# CS5A-170/175/180/185/190/195/200M

## Electrical Data

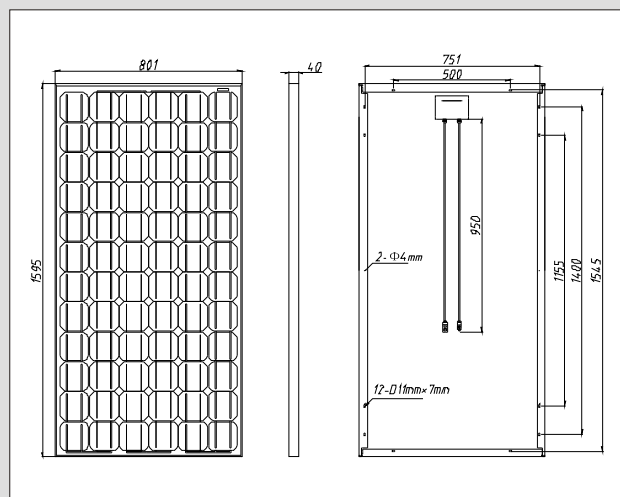
	CS5A-170M	CS5A-175M	CS5A-180M	CS5A-185M	CS5A-190M	CS5A-195M	CS5A-200M
Nominal Maximum Power at STC (Pmax)	170W	175W	180W	185W	190W	195W	200W
Optimum Operating Voltage (Vmp)	35.6V	35.8V	36.1V	36.4V	36.6V	37.0V	37.4V
Optimum Operating Current (Imp)	4.78A	4.89A	4.99A	5.09A	5.19A	5.27A	5.35A
Open Circuit Voltage (Voc)	44.3V	44.4V	44.6V	44.6V	44.8V	45.0V	45.3V
Short Circuit Current (Isc)	5.12A	5.23A	5.34A	5.46A	5.52A	5.62A	5.71A
Operating Temperature	-40°C~+85°C						
Maximum System Voltage	1,000V (IEC) /600V (UL)						
Maximum Series Fuse Rating	10A						
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

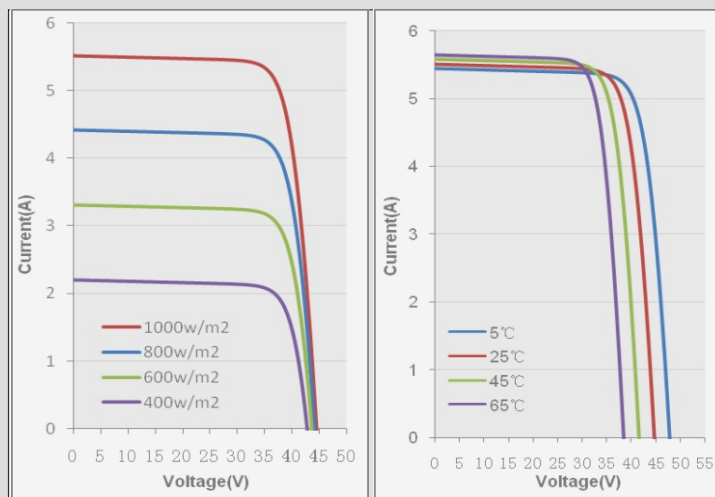
Cell Type	Mono-crystalline
Cell Arrangement	72 (6 x 12)
Dimensions	1595 x 801 x 40mm (62.8 x 31.5 x 1.57in)
Weight	15.5kg (34.2 lbs)
Front Cover	Tempered glass
Frame Material	Anodized aluminium alloy
Standard Packaging (Modules per Pallet)	20pcs

## Engineering Drawings



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

## I-V Curves (CS5A-190M)



## 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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