**CS5P****170/180/190**

Key Features

- Strong frame, passing mechanical load test of 5400Pa, instead of the normal 2400Pa, to withstand heavier snow load and higher wind-pressure
- Industry leading power tolerance : $\pm 5W$ ($\pm 2.6\%$)
- 25 years performance warranty
- The 1st manufacturer in PV industry to apply ISO:TS16949 (quality control management for automotive industry) in module production
- ISO17025 qualified manufacturer owned testing lab (pending), fully complying to IEC, TUV, UL testing standards

On-grid Module

CS5P is a robust big solar module with 96 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

- 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



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Electrical Data

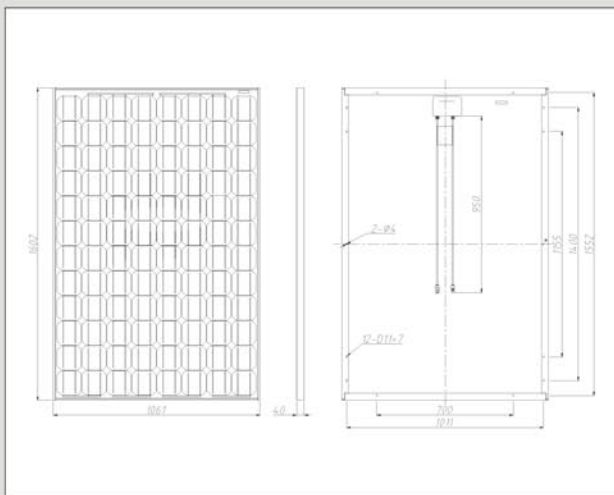
		CS5P-170	CS5P-180	CS5P-190
Nominal Maximum Power at STC (Pmax)		170W	180W	190W
Optimum Operating Voltage (Vmp)		46.1V	46.2V	46.3V
Optimum Operating Current (Imp)		3.69A	3.90A	4.11A
Open Circuit Voltage (Voc)		57.1V	57.2V	57.3V
Short Circuit Voltage (Isc)		4.15A	4.36A	4.57A
Operating Temperature		-40°C~+85°C		
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/m², spectrum AM 1.5 and cell temperature of 25°C

Mechanical Data

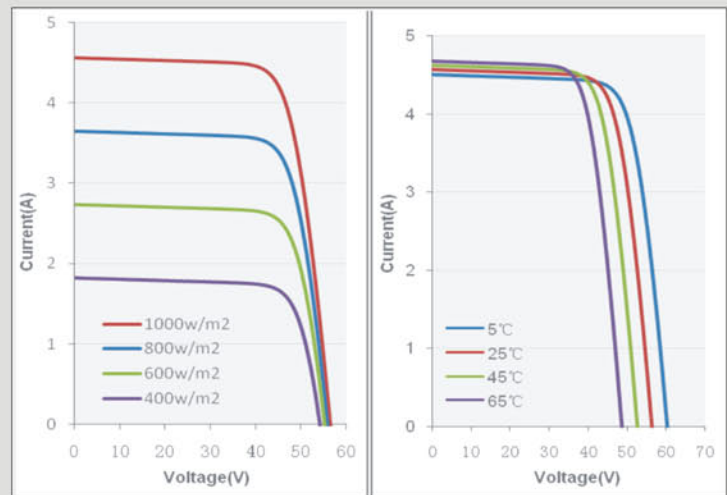
Cell Type	Mono-crystalline (Poly-crystalline)
Cell Arrangement	96 (8*12)
Dimensions	1602mm*1061mm*40mm
Weight	20kg
Front Cover	Tempered glass
Frame Material	Anodized aluminium alloy
Packaging (Modules per Pallet)	20pcs

Engineering Drawings



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

I-V Curves



About Canadian Solar

Canadian Solar is a vertically-integrated manufacturer of silicon 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 revenues over 700 million dollars in 2008, a 133% growth in revenue over 2007, Canadian Solar has become one of the fastest-growing companies in the solar industry.

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