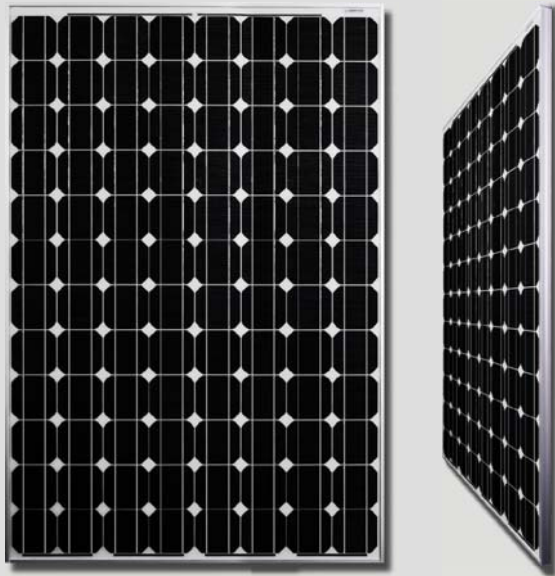


CS5P

220/225/230/235/240/245/250M



Key Features

- Top ranked PVUSA (PTC) rating in California for higher energy production
- 6 years product warranty (materials and workmanship); 25 years module power output warranty
- Industry leading plus only power tolerance: +5W (+2%)
- 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

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

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



CS5P-220/225/230/235/240/245/250M

Electrical Data

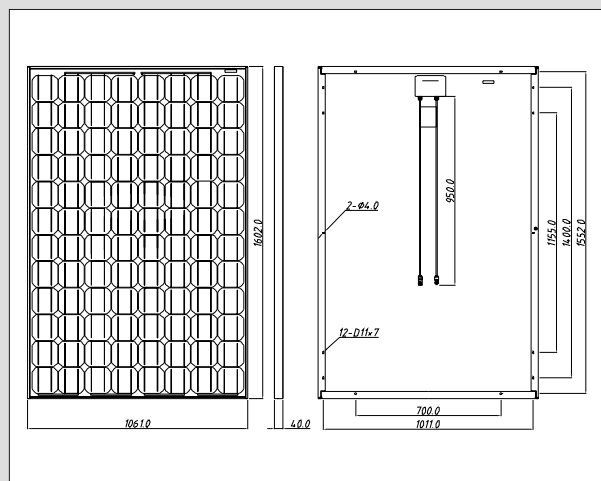
	CS5P-220M	CS5P-225M	CS5P-230M	CS5P-235M	CS5P-240M	CS5P-245M	CS5P-250M
Nominal Maximum Power at STC (Pmax)	220W	225W	230W	235W	240W	245W	250W
Optimum Operating Voltage (Vmp)	47.0V	47.4V	47.5V	47.7V	48.1V	48.4V	48.7V
Optimum Operating Current (Imp)	4.68A	4.74A	4.84A	4.93A	4.99A	5.06A	5.14A
Open Circuit Voltage (Voc)	58.8V	59.0V	59.1V	59.2V	59.4V	59.5V	59.6V
Short Circuit Current (Isc)	5.01A	5.09A	5.18A	5.27A	5.34A	5.43A	5.49A
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

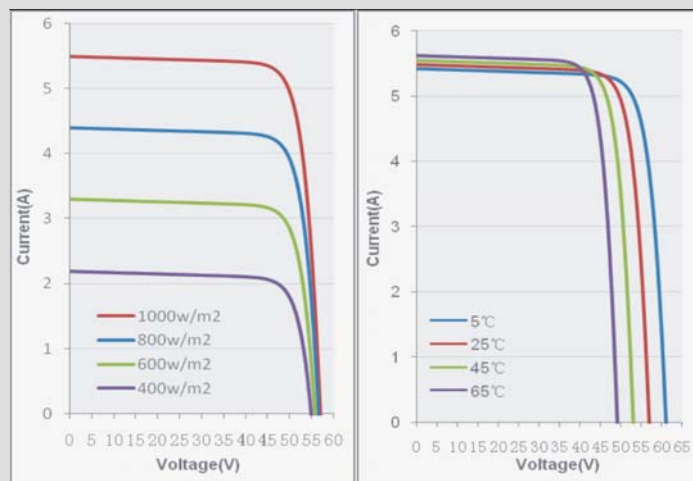
Cell Type	Mono-crystalline
Cell Arrangement	96 (8 x 12)
Dimensions	1602 x 1061 x 40mm (63.1 x 41.8 x 1.57in)
Weight	20kg (44.1 lbs)
Front Cover	Tempered glass
Frame Material	Anodized aluminium alloy
Standard Packaging (Modules per Pallet)	20pcs

Engineering Drawings



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

I-V Curves (CS5P-250M)



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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.

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