

MaxPower CS6X

280/285/290/295M



Key Features

- Industry largest silicon solar module, generating more Watt per panel and reducing BOS cost
- 6 years product warranty (materials and workmanship); 25 years module power output warranty
- Industry leading plus only power tolerance: +5W (+1.7%)
- 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

All-purpose Module

MaxPower CS6X is a robust solar module with 72 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

- Utility
- Commercial/industrial roof-tops
- Rural area applications
- Other on-grid and off-grid applications

Quality Certificates

- IEC 61215 / IEC 61730, UL 1703, CEC Listed, CE, MCS
- ISO9001: 2008: Standards for quality management systems
- ISO/TS16949:2009: The automotive quality management system

Environment Certificates

- ISO14001:2004: Standards for Environmental management systems
- QC080000 HSPM: The Certification for Hazardous Substances Regulations



CS6X-280/285/290/295M MaxPower

Electrical Data

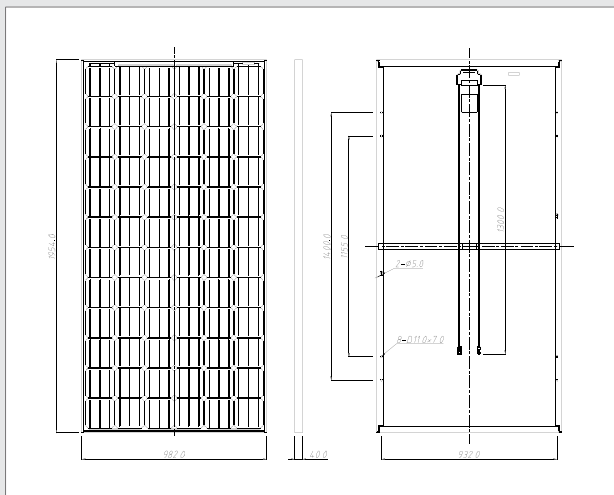
	CS6X-280M	CS6X-285M	CS6X-290M	CS6X-295M
Nominal Maximum Power at STC (Pmax)	280W	285W	290W	295W
Optimum Operating Voltage (Vmp)	36.0V	36.1V	36.3V	36.4V
Optimum Operating Current (Imp)	7.78A	7.89A	8.00A	8.11A
Open Circuit Voltage (Voc)	44.6V	44.7V	44.7V	44.9V
Short Circuit Current (Isc)	8.30A	8.40A	8.51A	8.63A
Operating Temperature	-40°C~+85°C			
Maximum System Voltage	1000V (IEC) /600V (UL)			
Maximum Series Fuse Rating	15A			
Power Tolerance	+5W			
Temperature Coefficient	Pmax	-0.45%/°C		
	Voc	-0.35 %/°C		
	Isc	0.06 %/°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

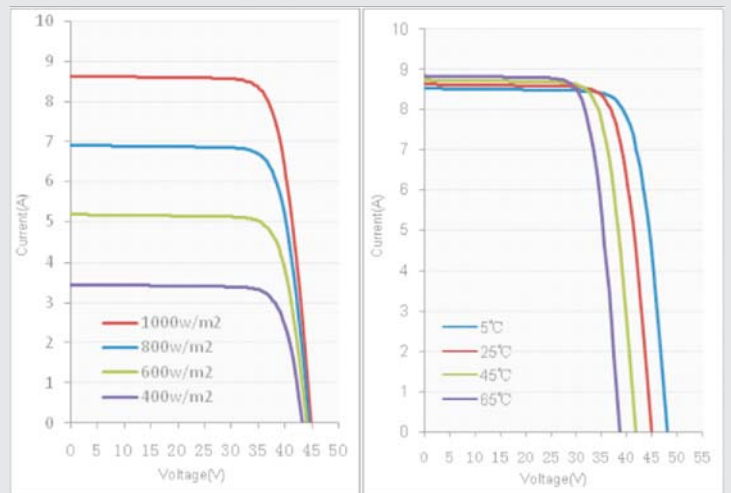
Cell Type	Mono-crystalline
Cell Arrangement	72 (6 x 12)
Dimensions	1954 x 982 x 40mm (76.93 x 38.7 x 1.57in)
Weight	27kg (59.52 lbs)
Front Cover	Tempered glass
Frame Material	Anodized aluminium alloy
Standard Packaging (Modules per Pallet)	20pcs

Engineering Drawings



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

I-V Curves (CS6X-295M)



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 has expanded its cell capacity to 800MW and module capacity to 1.3GW in 2010.

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