

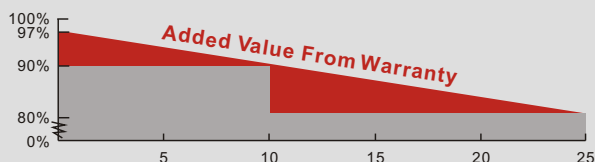
MaxPower CS6X

280/285/290/295/300P



Key Features

- Industry largest silicon solar module, generating more Watt per panel and reducing BOS cost
- Industry first comprehensive warranty insurance by AM Best rated leading insurance companies in the world
- Industry leading plus only power tolerance: 0 ~ +5W
- 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
- **Backed By Our New 10/25 Linear Power Warranty Plus our added 25 year insurance coverage**



- 10 year product warranty on materials and workmanship
- 25 year linear power output warranty

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

Environmental Certificates

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



CS6X-280/285/290/295/300P MaxPower

Electrical Data

STC	CS6X-280P	CS6X-285P	CS6X-290P	CS6X-295P	CS6X-300P
Nominal Maximum Power (Pmax)	280W	285W	290W	295W	300W
Optimum Operating Voltage (Vmp)	35.6V	35.8V	35.9V	36.0V	36.1V
Optimum Operating Current (Imp)	7.86A	7.96A	8.08A	8.19A	8.30A
Open Circuit Voltage (Voc)	44.2V	44.3V	44.4V	44.5V	44.6V
Short Circuit Current (Isc)	8.42A	8.53A	8.64A	8.76A	8.87A
Module Efficiency	14.59%	14.85%	15.11%	15.37%	15.63%
Operating Temperature	-40°C~+85°C				
Maximum System Voltage	1000V (IEC) /600V (UL)				
Maximum Series Fuse Rating	15A				
Application Classification	Class A				
Power Tolerance	0 ~ +5W				

Under Standard Test Conditions (STC) of irradiance of 1000W/m², spectrum AM 1.5 and cell temperature of 25°C

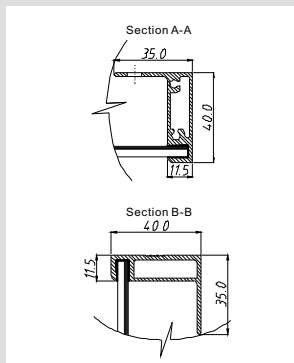
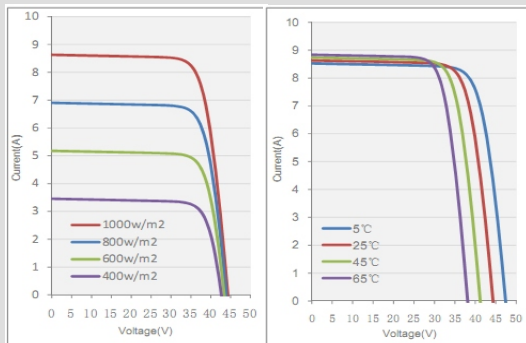
NOCT	CS6X-280P	CS6X-285P	CS6X-290P	CS6X-295P	CS6X-300P
Nominal Maximum Power (Pmax)	203W	207W	210W	214W	218W
Optimum Operating Voltage (Vmp)	32.5V	32.7V	32.7V	32.8V	32.9V
Optimum Operating Current (Imp)	6.25A	6.33A	6.42A	6.51A	6.61A
Open Circuit Voltage (Voc)	40.6V	40.7V	40.8V	40.9V	41.0V
Short Circuit Current (Isc)	6.82A	6.91A	7.00A	7.10A	7.19A

Under Normal Operating Cell Temperature, Irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s

Mechanical Data

Cell Type	Poly-crystalline 156 x 156mm, 2 or 3 Busbars
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	4mm Tempered glass
Frame Material	Anodized aluminium alloy
J-BOX	IP65, 3 diodes
Cable	4mm ² (IEC)/12AWG(UL), 1300mm
Connectors	MC4 or MC4 Comparable
Standard Packaging (Modules per Pallet)	24pcs
Module Pieces per container (40 ft. Container)	528pcs (40'HQ)

I-V Curves (CS6X-290P)



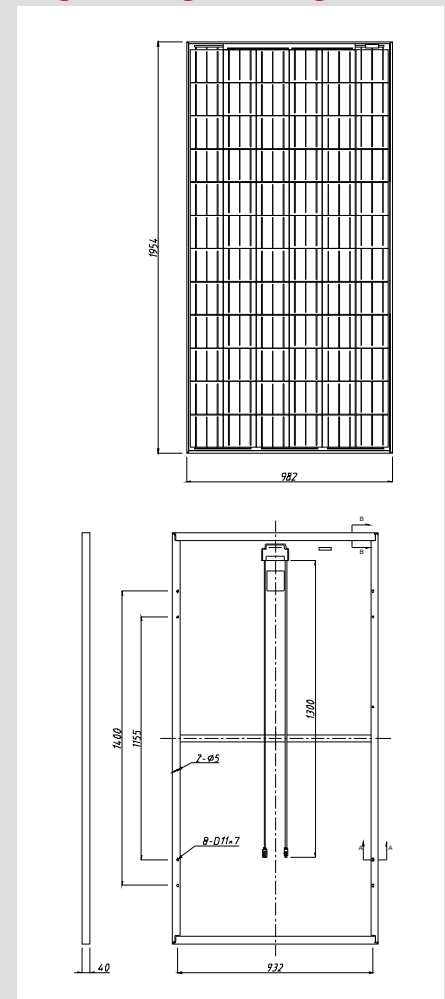
Temperature Characteristics

Temperature Coefficient	Pmax	-0.43%/°C
	Voc	-0.34 %/°C
	Isc	0.065 %/°C
Normal Operating Cell Temperature	45±2°C	

Performance at Low Irradiance

Industry leading performance at low irradiance environment, +95.5% module efficiency from an irradiance of 1000w/m² to 200w/m² (AM 1.5, 25 °C)

Engineering Drawings



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

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 already expanded its module manufacturing capacity to 2.05GW and cell manufacturing capacity to 1.3GW in 2011.

Headquarters | 650 Riverbend Drive, Suite B
Kitchener, Ontario | Canada N2K 3S2
Tel: +1-519-954-2057
Fax: +1-519-578-2097
inquire.ca@canadiansolar.com
www.canadiansolar.com