CanadianSolar



CS6X-P

MaxPower
295 I 300 I 305 I 310P

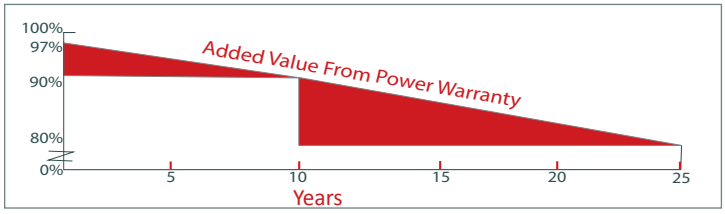
THE BEST IN CLASS

Canadian Solar's PV modules are the best in class in terms of power output and long-term reliability. Our meticulous product design and stringent quality control processes ensure our modules deliver a higher PV energy yield in live PV systems as well as in PVsyst's system simulations. Our in-house PV testing facilities guarantee all module component materials meet the highest quality standards possible.

PRODUCT | KEY FEATURES

- 16.16% — Excellent Module Efficiency Up to 16.16%
- + 95.5% — High Performance at Low Irradiance above 95.5%
- 5W — Positive Power Tolerance Up to 5W
- 91.8% — High PTC rating Up to 91.9%
- Anti-Soil Buildup — Anti-Soil Buildup, Anti-Reflective Module Surface
- IP67 — IP67 Junction Box Long-term Weather Endurance
- 5.400Pa — Heavy Snow Load Up to 5400Pa
- System Reliability — Salt Mist, Ammonia and Blowing Sand Resistance, Apply to Seaside, Farm and Desert Environment

PRODUCT | WARRANTY & INSURANCE



25 Year Industry leading linear power output warranty
10 Year Product warranty on materials and workmanship

25 YEARS Warranty Insurance — Canadian Solar provides 100% non-cancellable, and immediate warranty insurance.

PRODUCT & MANAGEMENT SYSTEM | CERTIFICATES

IEC61215/IEC61730: VDE/TUV/CE/MCS/SII/KEMCO/CEC AU
CEC listed (US)/FSEC (US Florida)
UL1703: CSA | IEC61701 ED2: VDE | IEC62716: TUV
PV CYCLE | UNI9177

ISO9001:2008	I Quality management system
ISOTS16949:2009	I The automative industry quality management system
ISO14001:2004	I Standards for environmental management system
QC080000:2012	I The certificate for hazardous substances process management
OHSAS 18001:2007	I International standards for occupational health and safety

Canadian Solar Inc.

Founded in 2001 in Canada, Canadian Solar Inc., (NASDAQ:CSIQ) is one of the world's largest and foremost solar power companies. As a leading manufacturer of solar modules and PV project developer with about 6 GW of premium quality modules deployed around the world more than a decade, Canadian Solar is one of the most bankable solar companies in the world. Canadian Solar operates in six continents with customers in over 70 countries. Canadian Solar is committed to providing high-quality solar products, solar system solutions and services to customers around the world.

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CanadianSolar

PRODUCT DATASHEET | USA

ELECTRICAL DATA | STC

Electrical Data	CS6X-300P	CS6X-305P	CS6X-310P
Nominal Maximum Power (Pmax)	300W	305W	310W
Optimum Operating Voltage (Vmp)	36.1V	36.3V	36.4V
Optimum Operating Current (Imp)	8.30A	8.41A	8.52A
Open Circuit Voltage (Voc)	44.6V	44.8V	44.9V
Short Circuit Current (Isc)	8.87A	8.97A	9.08A
Module Efficiency	15.63%	15.90%	16.16%
Operating Temperature	-40°C~+85°C		
Maximum System Voltage	600V (UL)/1000V (UL)/1000V (IEC)		
Maximum Series Fuse Rating	15A		
UL Fire Classification	Class C		
Power Tolerance	0~+5W		

*Under standard test conditions (STC) of irradiance of 1000W/m², spectrum AM 1.5 and cell temperature of 25°C

ELECTRICAL DATA | NOCT

Electrical Data	CS6X-300P	CS6X-305P	CS6X-310P
Nominal Maximum Power (Pmax)	218W	221W	225W
Optimum Operating Voltage (Vmp)	32.9V	33.1V	33.2V
Optimum Operating Current (Imp)	6.61A	6.68A	6.77A
Open Circuit Voltage (Voc)	41.0V	41.2V	41.3V
Short Circuit Current (Isc)	7.19A	7.27A	7.36A

*Under nominal operating temperature (NOCT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C wind speed 1 m/s.

PRODUCT I MECHANICAL DATA

Specification	Data
Cell Type:	Poly-crystalline 156 x 156mm.
Cell Arrangement:	72 (6 x 12)
Dimensions:	1954 x 982 x 40mm (76.93 x 38.7 x 1.57in)
Weight:	22kg (48.5 lbs.)
Front Cover:	3.2mm tempered glass
Module Frame Material:	Anodized aluminum alloy
J-Box:	IP65 or IP67, 3 diodes
Cable:	4mm² (IEC)/4mm² &12AWG (UL 1000V)/ 12AWG (UL 600V), 1150mm/1300mm**
Connectors:	MC4 or MC4 Comparable
Standard Packaging:	24 pcs, 608kg (Quantity and weight per pallet)
Module Pieces per Container:	528 pcs (40' HQ)

**The CS6P with cable of 1300mm os only for Canadian Market.

TEMPERATURE | CHARACTERISTICS

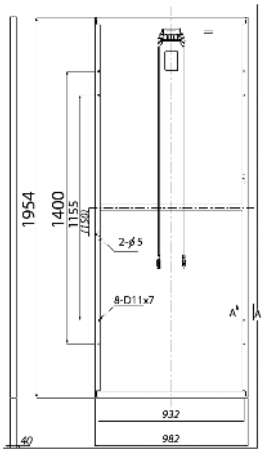
Specification	Data
Temperature Coefficient (Pmax)	-0.43%/°C
Temperature Coefficient (Voc)	-0.34%/°C
Temperature Coefficient (Isc)	0.065%/°C
Normal Operating Cell Temperature	45±2°C

PERFORMANCE | AT LOW IRRADIANCE

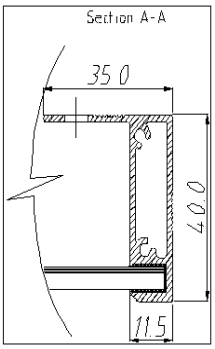
Industry leading performance at low irradiation environments, +95.5% PV module efficiency from an irradiance of 1000w/m² to 200w/m² (AM 1.5, 25°C).

MODULE | ENGINEERING DRAWING

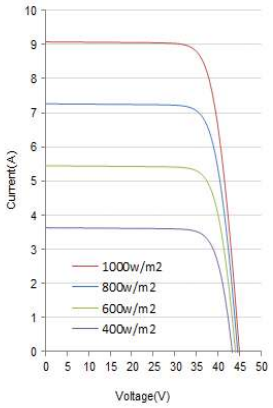
Rear View

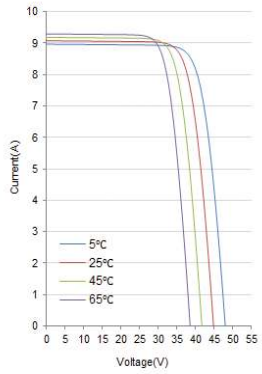


Frame Cross Section



CS6X-310P I I-V CURVES





Partner Section

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