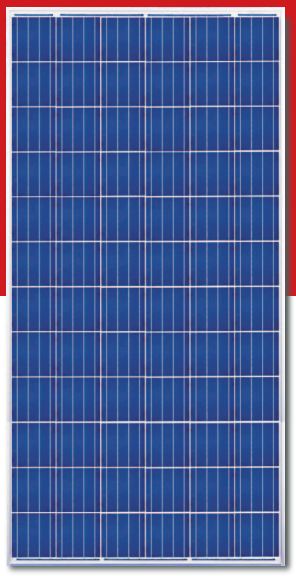
CanadianSolar
Make The Difference



QUARTECH

The Next Generation Module

MAX POWER
CS6X-300 I 305P

QUARTECH MODULE | THE NEXT GENERATION MODULE

Canadian Solar's new Quartech modules have raised the module efficiency to a new standard in the solar industry. It introduced innovative four busbar cell technology which demonstrated higher power output and higher system reliability. Our worldwide customers have embraced this next generation modules for their excellent performance, superior reliability and enhanced value.

PRODUCT | KEY BENIFITS

Higher Energy Yield

Energy Yield

- Outstanding performance at low irradiance
- Maximum energy yield at low NOCT
- Improved energy production through reduced cell series resistance

Increased System Reliability

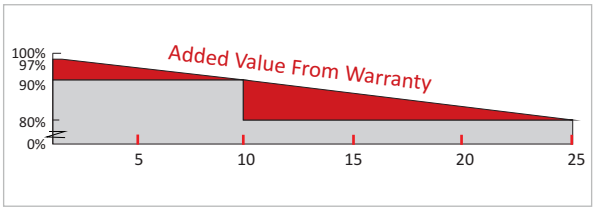
System Reliability

- Enhanced system performance stability with PID resistant technology
- Long term system reliability with IP67 junction box
- Enhanced system reliability in extreme temperature environment with special cell level stress release technology

Extra Value to Customers

Extra Value

- Positive power tolerance up to 5W
- Stronger 40mm robust frame to hold 5400 Pa load
- Anti-glare project evaluation
- Salt mist, ammonia and blowing sand resistance apply to seaside, farm and desert environment
- 25 year linear performance warranty
- 25 year performance warranty insurance



QUARTECH MODULE | NEW TECHNOLOGY

- Reduces cell series resistance
- Reduces stress between cell interconnectors
- Improves module conversion efficiency
- Improves product reliability

PRODUCT & MANAGEMENT SYSTEM | CERTIFICATES

IEC 61215 / IEC 61730: VDE / MCS / CE / SII / KEMCO / CEC AU/CQC / INMETRO
UL 1703 / IEC 61215 performance: CEC listed (US) / FSEC (US Florida)
UL 1703: CSA | IEC 61701 ED2: VDE | IEC 62716: TUV | IEC60068-2-68: SGS
UNI9177 Reaction to Fire: Class 1

ISO9001: 2008 I Quality management system
ISOTS16949:2009 I The automotive 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
*Please contact your sales representative for the entire list of certificates applicable to your products

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 in the past 12 years, Canadian Solar is one of the most bankable solar companies in Europe, USA, Japan and China. Canadian Solar operates in six continents with customers in over 70 countries and regions. Canadian Solar is committed to providing high quality solar products, solar system solutions and services to customers around the world.

www.canadiansolar.com
inquire.ca@canadiansolar.com

Canadian Solar Inc.
545 Speedvale Avenue West
Guelph | Ontario N1K 1E6 | Canada

QUARTECH

CanadianSolar
Make The Difference

ELECTRICAL DATA | STC

Electrical Data	CS6X-300P	CS6X-305P
Nominal Maximum Power (Pmax)	300W	305W
Optimum Operating Voltage (Vmp)	36.1V	36.3V
Optimum Operating Current (Imp)	8.30A	8.41A
Open Circuit Voltage (Voc)	44.6V	44.8V
Short Circuit Current (Isc)	8.87A	8.97A
Module Efficiency	15.63%	15.90%
Operating Temperature	-40℃~+85℃	
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/m^2, spectrum AM 1.5 and cell temperature of 25℃.

ELECTRICAL DATA | NOCT

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

*Under Nominal Operating Cell Temperature(NOCT), irradiance of 800 W/m^2, spectrum AM 1.5, ambient temperature 20℃.

MODULE | 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
Frame Material	Anodized aluminium alloy
J-BOX	IP65 or IP67, 3 diodes
Cable	4mm^2(IEC)/12AWG(UL), 1150mm/1300mm**
Connectors	MC4 or MC4 comparable
Standard Packaging	24pcs, 608kg (quantity and weight per pallet)
Module Pieces Per Container	528pcs (40'HQ)

TEMPERATURE CHARACTERISTICS

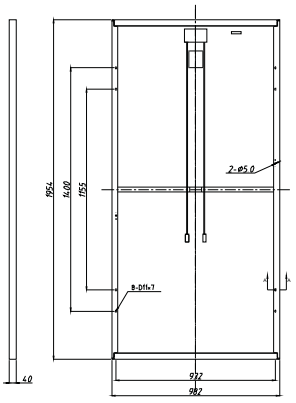
Specification	Data
Temperature Coefficient (Pmax)	-0.43%/℃
Temperature Coefficient (Voc)	-0.34 %/℃
Temperature Coefficient (Isc)	0.065 %/℃
Nominal Operating Cell Temperature	45±2℃

PERFORMANCE AT LOW IRRADIANCE

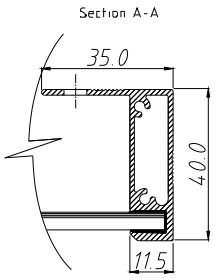
Industry leading performance at low irradiation environment, +96.0% module efficiency from an irradiance of 1000w/m^2 to 200w/m^2(AM 1.5, 25 ℃)

MODULE | ENGINEERING DRAWING

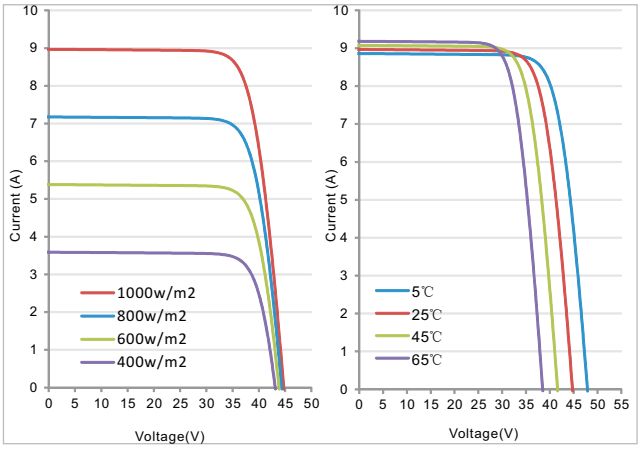
Rear View



Frame Cross Section



CS6X-305P | I-V CURVES



Partner Section

*The specifications made herein may deviate slightly and are not guaranteed. Due to ongoing innovation, research and product enhancement we reserve the right to make any adjustments to the information contained herein at any time without notice.. Please always obtain the most recent revision of datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.