

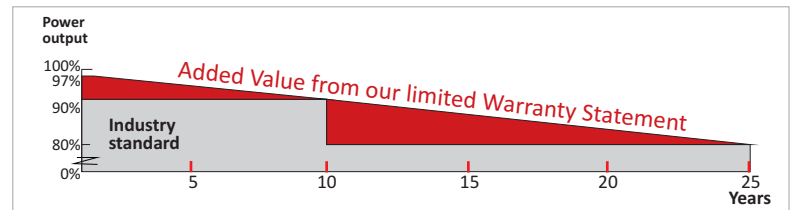
NewEdge

CS6P-250 | 255PX

THE BEST IN CLASS

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

PRODUCT | WARRANTY & INSURANCE



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

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

PRODUCT & MANAGEMENT SYSTEM | CERTIFICATES*

IEC 61215 / IEC 61730: VDE / TUV / MCS / CE
 UL 1703 / IEC 61215 performance: CEC listed (US)
 UL 1703: CSA | IEC 61701 ED2: VDE | PV CYCLE (EU)

ISO9001: 2008 | Quality management system
 ISOTS16949:2009 | The automotive industry quality management system
 ISO14001:2004 | Standards for environmental management system
 QCO80000:2012 | The certificate for hazardous substances process management
 OHSAS 18001:2007 | 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 the world's TOP 3 solar power company. 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 13 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 90 countries and regions. Canadian Solar is committed to providing high quality solar products, solar system solutions and services to customers around the world.



PRODUCT | KEY FEATURES

Canadian Solar's NewEdge module is manufactured with a Zep Groove frame design technology to facilitate a faster, safer, easier and more cost-effective installation.



Excellent module efficiency up to 15.85%



High performance at low irradiance above 96.5%



Positive power tolerance up to 5w



High PTC rating up to 91.04%



Anti-glare module surface available



IP67 junction box long-term weather endurance



Heavy snow load up to 5400pa



Salt mist corrosion resistance suitable for seaside environment

ELECTRICAL DATA | STC

| Electrical Data | CS6P-250PX | CS6P-255PX |
|---------------------------------|--------------------------|------------|
| Nominal Maximum Power (Pmax) | 250 W | 255 W |
| Optimum Operating Voltage (Vmp) | 30.1 V | 30.2 V |
| Optimum Operating Current (Imp) | 8.30 A | 8.43 A |
| Open Circuit Voltage (Voc) | 37.2 V | 37.4 V |
| Short Circuit Current (Isc) | 8.87 A | 9.00 A |
| Module Efficiency | 15.54 % | 15.85 % |
| Operating Temperature | -40 °C~+85 °C | |
| Maximum System Voltage | 1000 V (IEC) /600 V (UL) | |
| Maximum Series Fuse Rating | 15 A | |
| Application Classification | Class A | |
| Power Tolerance | 0 ~ +5 W | |

*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 | CS6P-250PX | CS6P-255PX |
|---------------------------------|------------|------------|
| Nominal Maximum Power (Pmax) | 181 W | 185 W |
| Optimum Operating Voltage (Vmp) | 27.5 V | 27.5 V |
| Optimum Operating Current (Imp) | 6.60 A | 6.71 A |
| Open Circuit Voltage (Voc) | 34.2 V | 34.4 V |
| Short Circuit Current (Isc) | 7.19 A | 7.29 A |

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

MODULE | MECHANICAL DATA

| Specification | Data |
|-----------------------------|---|
| Cell Type | Poly-crystalline, 6inch |
| Cell Arrangement | 60 (6 x 10) |
| Dimensions | 1638 x 982 x 40mm (64.5 x 38.7 x 1.57in) |
| Weight | 20kg (44.1 lbs) |
| Front Cover | 3.2mm tempered glass |
| Frame Material | Anodized aluminium alloy |
| J-BOX | IP67, 3 diodes |
| Cable | 4mm ² (IEC)/12AWG(UL), 1000mm |
| Connectors | MC4 or MC4 comparable |
| Standard Packaging | 24pcs, 530kg (quantity and weight per pallet) |
| Module Pieces Per Container | 672pcs (40'HQ) |

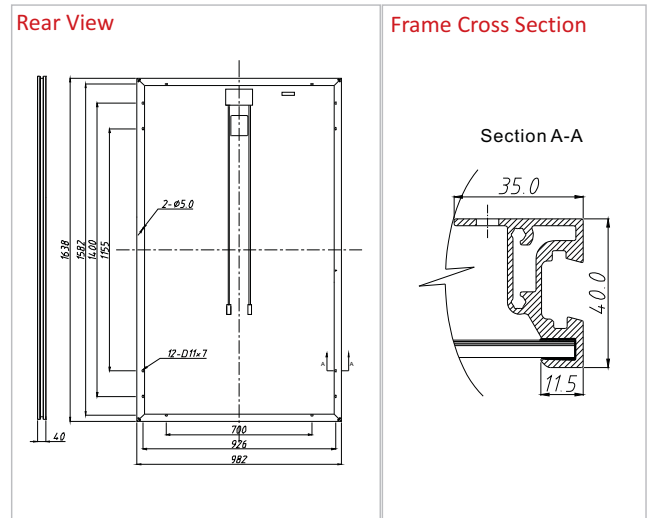
TEMPERATURE CHARACTERISTICS

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

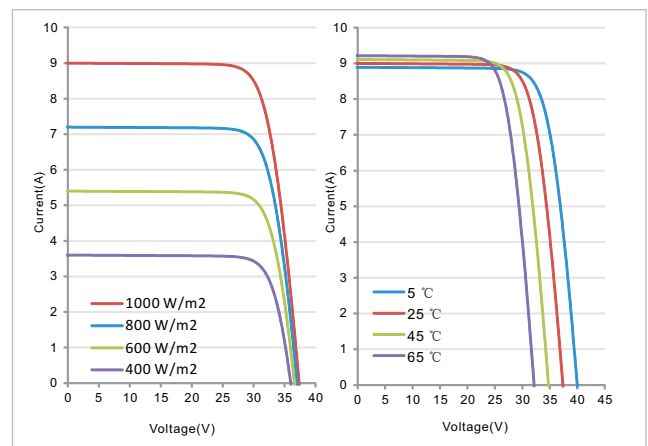
PERFORMANCE AT LOW IRRADIANCE

Industry leading performance at low irradiation, +96.5% module efficiency from an irradiance of 1000W/m² to 200W/m² (AM 1.5, 25 °C)

MODULE | ENGINEERING DRAWING



CS6P-255PX | I-V CURVES



Partner Section

As there are different certification requirements in different markets, please contact your sales representative for the specific certificates applicable to your products. The specification and key features described in this Datasheet may deviate slightly and are not guaranteed. Due to on-going innovation, research and product enhancement, Canadian Solar Inc. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the 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.