



CS6P | BLACK FRAME

245 | 250 | 255 | 260P

Polycrystalline PV Module

CS6P is a robust solar module with 60 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.

Best Quality

- 235 quality control points in module production
- EL screening to eliminate product defects
- Current binning to improve system performance
- Potential-Induced Degradation (PID) free
- Accredited Salt mist/Ammonia resistant
- Top performance by PVUSA Test Conditions (PTC) rating

Best Warranty Insurance

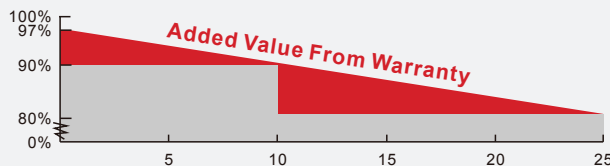
- 25 years worldwide coverage
- 100% warranty term coverage
- Providing third party bankruptcy rights
- Non-cancellable
- Immediate coverage
- Insured by 3 world top insurance companies

Comprehensive Certificates

- IEC 61215, IEC 61730, IEC61701 ED2, UL1703, IEC62716, KEMCO, CEC Listed, CE, JET and MCS
- ISO9001: 2008: Quality Management System
- ISO/TS16949:2009: The automotive quality management system
- ISO14001:2004: Standards for Environmental management system
- QC080000 HSPM: The Certification for Hazardous Substances Regulations
- OHSAS 18001:2007 International standards for occupational health and safety
- REACH Compliance

Key Features

- High module efficiency up to 15.85%
- Positive power tolerance: 0 ~ +5W
- Robust frame to up to 5400 Pa load
- Anti-reflective with self-cleaning surface
- Outstanding performance at low irradiance
- High energy yield at Low NOCT
- **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

CS6P-235/240/245/250/255P

Electrical Data

| STC | CS6P-235P | CS6P-240P | CS6P-245P | CS6P-250P | CS6P-255P |
|---------------------------------|------------------------|-----------|-----------|-----------|-----------|
| Nominal Maximum Power (Pmax) | 235W | 240W | 245W | 250W | 255W |
| Optimum Operating Voltage (Vmp) | 29.8V | 29.9V | 30.0V | 30.1V | 30.2V |
| Optimum Operating Current (Imp) | 7.90A | 8.03A | 8.17A | 8.30A | 8.43A |
| Open Circuit Voltage (Voc) | 36.9V | 37.0V | 37.1V | 37.2V | 37.4V |
| Short Circuit Current (Isc) | 8.46A | 8.59A | 8.74A | 8.87A | 9.00A |
| Module Efficiency | 14.61% | 14.92% | 15.23% | 15.54% | 15.85% |
| 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

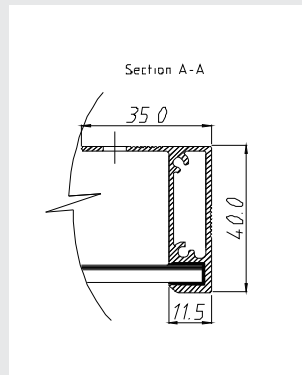
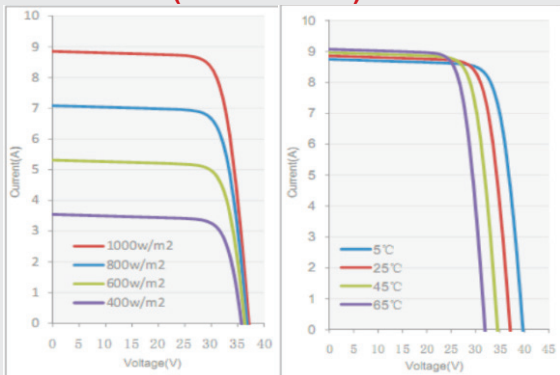
| NOCT | CS6P-235P | CS6P-240P | CS6P-245P | CS6P-250P | CS6P-255P |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|
| Nominal Maximum Power (Pmax) | 170W | 174W | 178W | 181W | 185W |
| Optimum Operating Voltage (Vmp) | 27.2V | 27.3V | 27.4V | 27.5V | 27.5V |
| Optimum Operating Current (Imp) | 6.27A | 6.38A | 6.49A | 6.60A | 6.71A |
| Open Circuit Voltage (Voc) | 33.9V | 34.0V | 34.1V | 34.2V | 34.4V |
| Short Circuit Current (Isc) | 6.86A | 6.96A | 7.08A | 7.19A | 7.29A |

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, 3 or 4 Busbars |
| Cell Arrangement | 60 (6 x 10) |
| Dimensions | 1638 x 982 x 40mm (64.5 x 38.7 x 1.57in) |
| Weight | 19kg (41.9 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), 1000mm |
| Connectors | MC4 or MC4 Comparable |
| Standard Packaging (Modules per Pallet) | 24pcs |
| Module Pieces per container (40 ft. Container) | 672pcs (40'HQ) |

I-V Curves (CS6P-255P)



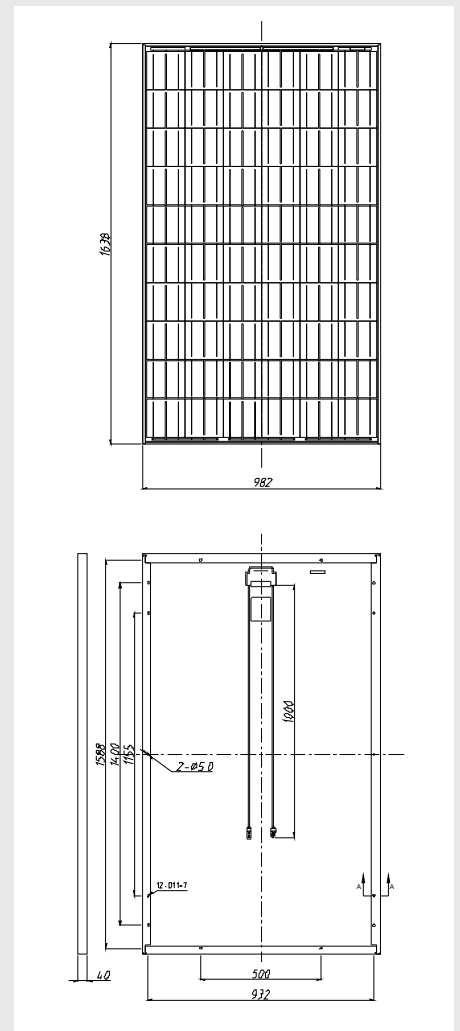
Temperature Characteristics

| | | |
|-----------------------------------|------|-----------|
| 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. Canadian Solar was founded in Canada in 2001 and was successfully listed on NASDAQ Exchange (symbol: CSIQ) in November 2006. Canadian Solar has cell manufacturing capacity of 1.6GW and module manufacturing capacity of 2.4GW.

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