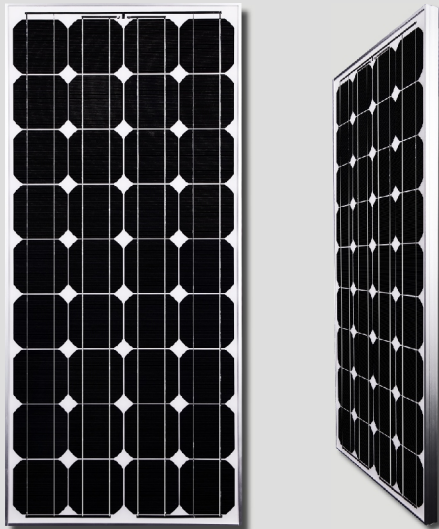


CS5C

75/80/85/90



Key Features

- 6 years product warranty (materials and workmanship); 25 years module power output warranty
- Industry leading power tolerance : $\pm 5W$ ($\pm 6\%$)
- Strong framed module, passing mechanical load test of 5400Pa to withstand heavier snow load
- The 1st manufacturer in 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

Off-grid Module

CS5C is a robust solar module with 36 solar cells. These modules can be used for off-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

- Power supply for remote telecommunication equipment
- Traffic, security environment, and other remote monitoring and signaling systems
- Water pumping systems
- Rural area applications
- Other off-grid applications

Quality Certificates

- IEC61215, IEC61730, TUV Safety Class II, UL1703, CE
- ISO9001:2000: Standards for quality management systems
- ISO/TS16949:2002: The automotive quality management system
- QC080000 HSPM: The Certification for Hazardous Substances Regulations



CS5C-75/80/85/90

Electrical Data

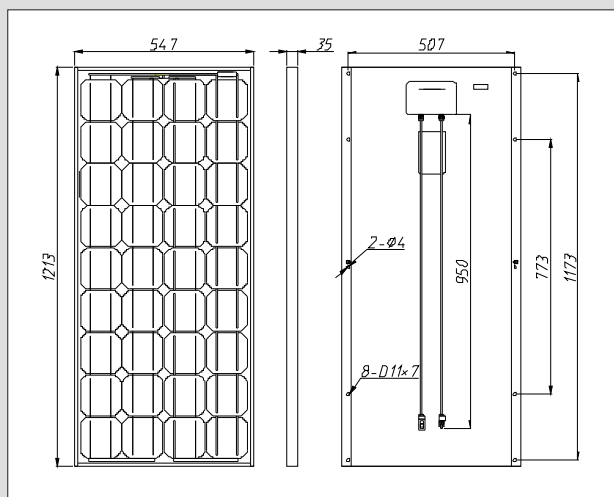
| | CS5C-75M CS5C-75P | CS5C-80M CS5C-80P | CS5C-85M CS5C-85P | CS5C-90M CS5C-90P |
|-------------------------------------|----------------------|----------------------|----------------------|----------------------|
| Nominal Maximum Power at STC (Pmax) | 75W | 80W | 85W | 90W |
| Optimum Operating Voltage (Vmp) | 17.4V | 17.5V | 17.7V | 18V |
| Optimum Operating Current (Imp) | 4.31A | 4.58A | 4.79A | 4.99A |
| Open Circuit Voltage (Voc) | 21.6V | 21.8V | 22V | 22.2V |
| Short Circuit Current (Isc) | 4.74A | 4.97A | 5.19A | 5.40 A |
| Operating Temperature | -40°C~+85°C | | | |
| Maximum System Voltage | 1,000V(IEC)/600V(UL) | | | |
| Maximum Series Fuse Rating | 10A | | | |
| Power Tolerance | ± 5W | | | |
| Temperature Coefficient | Pmax | -0.45%/°C | | |
| | Voc | -0.35%/°C | | |
| | Isc | 0.060%/°C | | |
| | NOCT | 45°C | | |

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

Mechanical Data

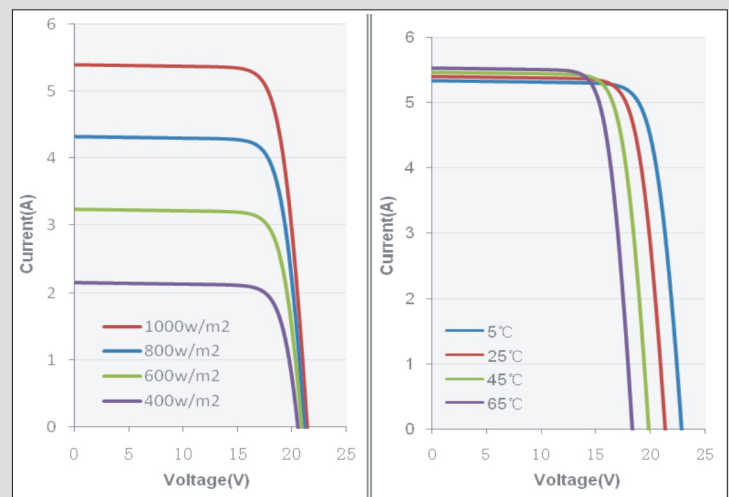
| | |
|---|-------------------------------------|
| Cell Type | Mono-crystalline / Poly-crystalline |
| Cell Arrangement | 36(4x9) |
| Dimensions | 1213x547x35mm(47.8x21.5x1.4 in) |
| Weight | 8.0kg(17.6 lbs) |
| Front Cover | Tempered glass |
| Frame Material | Anodized aluminum alloy |
| Standard packaging (Modules per Pallet) | 72pcs |

Engineering Drawings



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

I-V Curves (CS5C-90M)



About Canadian Solar

Canadian Solar is a vertically-integrated manufacturer of ingots, wafers, cells, solar modules and custom-designed solar power applications. Canadian Solar was founded in Canada in 2001 and was successfully listed on NASDAQ Exchange (symbol: CSIQ) in November 2006.

By the end of 2008, Canadian Solar has a module capacity of over 600MW. With revenue of 709.2 million dollars in 2008, a 134% growth in revenue over 2007, Canadian Solar has become one of the fastest-growing companies in the solar industry.

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