

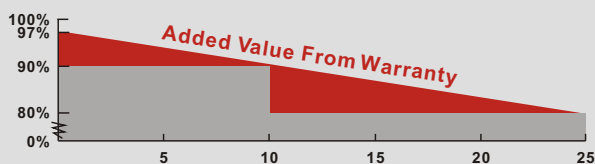
ClearPower CS6P

225/230/235/240/245M



Key Features

- Cost-effective standardized solar modules for skylight, roofing, and facades applications
- Transparent backsheet features aesthetic appearance and light transmission/shading (Transmission rate: 6%)
- Industry leading plus only power tolerance: 0 ~ +5W
- Strong framed module, passing mechanical load test of 5400Pa to withstand heavier snow load
- Industry first comprehensive warranty insurance by AM Best rated leading insurance companies in the world
- The 1st manufacturer in PV industry to apply ISO: TS16949 (The automotive quality management system) in module production since 2003
- ISO17025 for qualified manufacturer owned testing lab, fully complying to IEC, TUV, UL testing standards
- **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

On-grid Module

ClearPower CS6P is a robust solar standardized module with a tempered glass front, transparent backsheet and anodized black (or silver) aluminium frame. 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.

Applications

- Skylight
- Carport shading
- Greenhouse roofing
- Facades
- Other on-grid applications

Quality Certificates

- IEC61215/IEC61730, UL1703, CE
- ISO9001:2008: Standards for quality management systems
- ISO/TS16949:2009: The automotive quality management system

Environmental Certificates

- ISO14001:2004: Standards for Environmental management systems
- QC080000 HSPM: The Certification for Hazardous Substances Regulations



CS6P-225/230/235/240/245M

Electrical Data

STC	CS6P-225M	CS6P-230M	CS6P-235M	CS6P-240M	CS6P-245M
Nominal Maximum Power (Pmax)	225W	230W	235W	240W	245W
Optimum Operating Voltage (Vmp)	29.7V	29.9V	30.1V	30.2V	30.3V
Optimum Operating Current (Imp)	7.58A	7.70A	7.82A	7.95A	8.09A
Open Circuit Voltage (Voc)	37.0V	37.1V	37.2V	37.3V	37.4V
Short Circuit Current (Isc)	8.07A	8.22A	8.34A	8.46A	8.61A
Module Efficiency	13.99%	14.30%	14.61%	14.92%	15.23%
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

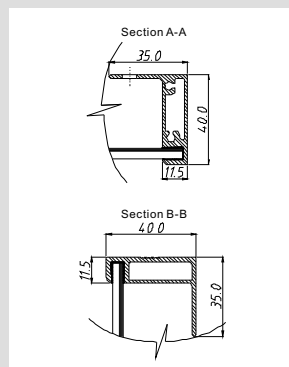
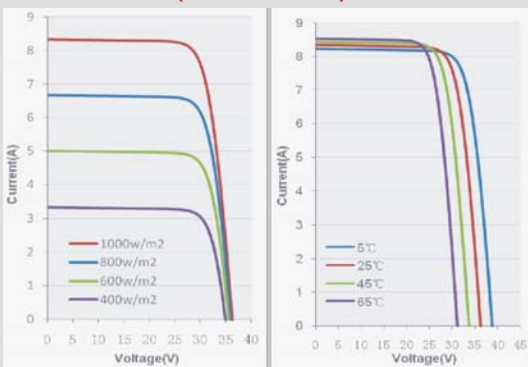
NOCT	CS6P-225M	CS6P-230M	CS6P-235M	CS6P-240M	CS6P-245M
Nominal Maximum Power (Pmax)	162W	166W	170W	173W	177W
Optimum Operating Voltage (Vmp)	27.1V	27.3V	27.5V	27.5V	27.6V
Optimum Operating Current (Imp)	6.00A	6.09A	6.18A	6.29A	6.40A
Open Circuit Voltage (Voc)	33.9V	34.0V	34.1V	34.2V	34.3V
Short Circuit Current (Isc)	6.53A	6.65A	6.75A	6.85A	6.97A

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	Mono-crystalline 156 x 156mm, 2 or 3 Busbars
Cell Arrangement	60 (6 x 10)
Dimensions	1638 x 982 x 40mm (64.5x 38.7 x 1.57in)
Weight	20kg (44.1 lbs)
Front Cover	3.2mm Tempered glass
Frame Material	Anodized aluminium alloy
J-BOX	IP65, 3 diodes
Cable	4mm ² (IEC)/12AWG(UL), 1100mm
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-240M)



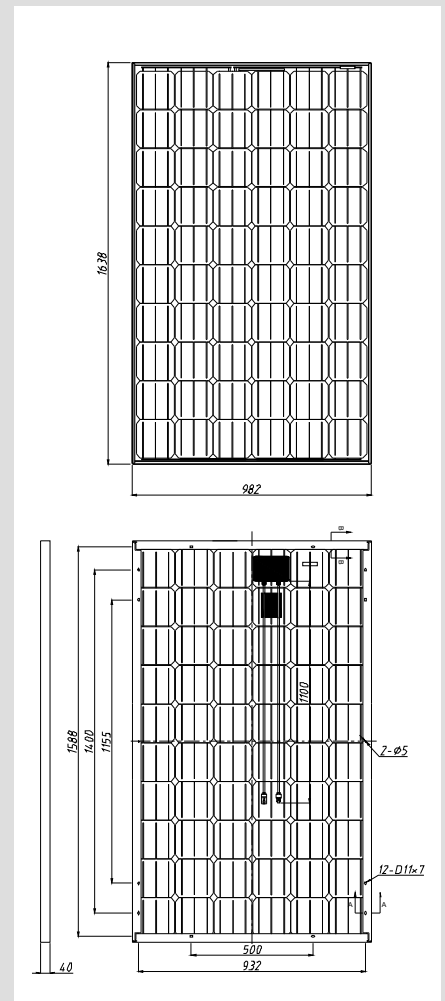
ClearPower Temperature Characteristics

Temperature Coefficient	Pmax	-0.45%/°C
	Voc	-0.35 %/°C
	Isc	0.060 %/°C
Normal Operating Cell Temperature	45±2°C	

Performance at Low Irradiance

Industry leading performance at low irradiation 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. As a leading vertically-integrated manufacturer of ingots, wafers, cells, solar modules and solar systems. Canadian Solar delivers solar power products of uncompromising quality to worldwide customers. Canadian Solar's world class team of professionals works closely with our customers to provide them with solutions for all their solar needs.

Canadian Solar was founded in Canada in 2001 and was successfully listed on NASDAQ Exchange (symbol: CSIQ) in November 2006. Canadian Solar will expand its module manufacturing capacity to 2.05GW and cell manufacturing capacity to 1.3GW in 2011.