

Key Features

- High module efficiency up to 16.05%
- 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



CS5A

180/185/190/195/200/205M

CS5A is a robust all-purpose solar module with 72 solar cells. These modules can be used for on-grid and 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.

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 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 topinsurance companies

Comprehensive Certificates

- IEC 61215, IEC61730, IEC61701 ED2, UL 1703, CEC Listed, CQCJET, CE, MCS, KEMCO
- 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



















www.canadiansolar.com

CS5A-180/185/190/195/200/205M

Electrical Data

STC	CS5A-180M	CS5A-185M	CS5A-190M	CS5A-195M	CS5A-200M	CS5A-205M
Nominal Maximum Power (Pmax)	180W	185W	190W	195W	200W	205W
Optimum Operating Voltage (Vmp)	36.1V	36.4V	36.6V	37.0V	37.4V	37.7 V
Optimum Operating Current (Imp)	4.99A	5.09A	5.19A	5.27A	5.35A	5.43A
Open Circuit Voltage (Voc)	44.6V	44.6V	44.8V	45.0V	45.3V	45.4V
Short Circuit Current (Isc)	5.34A	5.46A	5.52A	5.62A	5.71A	5.81A
Module Efficiency	14.09%	14.48%	14.87%	15.26%	15.65%	16.05%
Operating Temperature	-40°C~+85°C 1000V (IEC) /600V(UL)					
Maximum System Voltage						
Maximum Series Fuse Rating	10A					
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℃

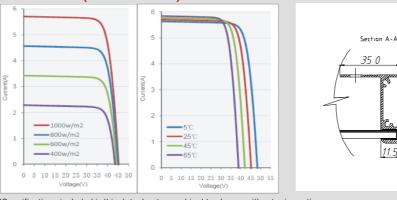
NOCT	CS5A-180M	CS5A-185M	CS5A-190M	CS5A-195M	CS5A-200M	CS5A-205M
Nominal Maximum Power (Pmax)	130W	134W	137W	141W	144W	148W
Optimum Operating Voltage (Vmp)	32.9V	33.2V	33.4V	33.7V	34.1V	34.4V
Optimum Operating Current(Imp)	3.95A	4.02A	4.11A	4.17A	4.23A	4.30A
Open Circuit Voltage (Voc)	40.9V	40.9V	41.1V	41.3V	41.5V	41.6V
Short Circuit Current (Isc)	4.32A	4.42A	4.47A	4.55A	4.62A	4.70A

Under Normal Operating Cell Temperature, Irradiance of 800 W/m 2 , spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s

Mechanical Data

Cell Type	Mono-crystalline 125 x 125mm, 2 Busbars		
Cell Arrangement	72 (6 x 12)		
Dimensions	1595 x 801 x 40mm (62.8 x 31.5 x 1.57in)		
Weight	15.3kg (33.7 lbs)		
	3 ()		
Front Cover	3.2mm Tempered glass		
Frame Material	Anodized aluminium alloy		
J-BOX	IP65, 3 diodes		
Cable	4mm ² (IEC)/12AWG(UL), 950mm		
Connectors	MC4 or MC4 Comparable		
Standard Packaging (Modules per Pallet)	24pcs		
Module Pieces per container (40 ft . Container)	672pcs		

I-V Curves (CS5A-200M)



 $^{{}^\}star Specifications$ included in this datasheet are subject to change without prior notice.

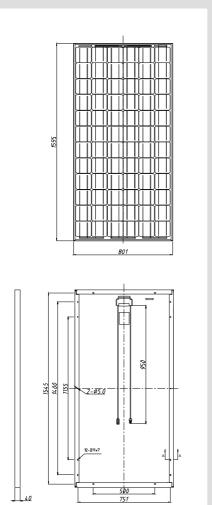
Temperature Characteristics

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

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 $^{\circ}{\rm C})$

Engineering Drawings



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 has module manufacturing capacity of 2.05GW and cell manufacturing capacity of 1.3GW.

Headquarters | 545 Speedvale Avenue West Guelph | Ontario N1K 1E6 | Canada Tel: +1 519 837 1881 Fax: +1 519837 2550 inquire.ca@canadiansolar.com www.canadiansolar.com