

NewEdge
Breakthrough Frame Design

 **CanadianSolar**

NewEdge

All-black CS5A

180/185/190/195/200MX

Preliminary Version



Key Features

- Quick and easy to install — dramatically reduces installation time
- Lower system costs — can cut rooftop installation costs in half
- Aesthetic seamless appearance — low profile with auto leveling and alignment
- Built-in hyper-bonded grounding system — if it's mounted, it's grounded
- Theft resistant hardware
- Ultra-low parts count — 3 parts for the mounting and grounding system
- 6 years product warranty (materials and workmanship); 25 years module power output warranty
- Industry leading PLUS ONLY power tolerance: +5W (+2.5%)
- Backward compatibility with all standard rooftop and ground mounting systems



Next Generation Solar Module

NewEdge, the next generation module designed for multiple types of mounting systems, offers customers the added value of minimal system costs, aesthetic seamless appearance, auto grounding and theft resistance.

The all-black CS5A-MX is a robust all purpose 72 cell solar module incorporating the groundbreaking Zep compatible frame. The specially designed frame allows for rail-free fast installation with the industry's most reliable grounding system. The module uses high efficiency mono-crystalline silicon cells laminated with a black back sheet and framed with black anodized aluminum. The all-black CS5A-MX is the perfect choice for customers who are looking for a high quality aesthetic module with lowest system cost.

Applications

- On-grid and off-grid residential roof-tops
- On-grid and off-grid commercial/industrial roof-tops
- Rural area applications
- Solar power stations
- Other on-grid and off-grid applications

Quality Certificates

- UL 1703(pending), CE
- ISO9001:2008: Standards for quality management systems
- ISO/TS16949:2009: The automotive quality management system
- QC080000 HSPM: The Certification for Hazardous Substances Regulations



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CS5A-180/185/190/195/200MX All-black

Electrical Data

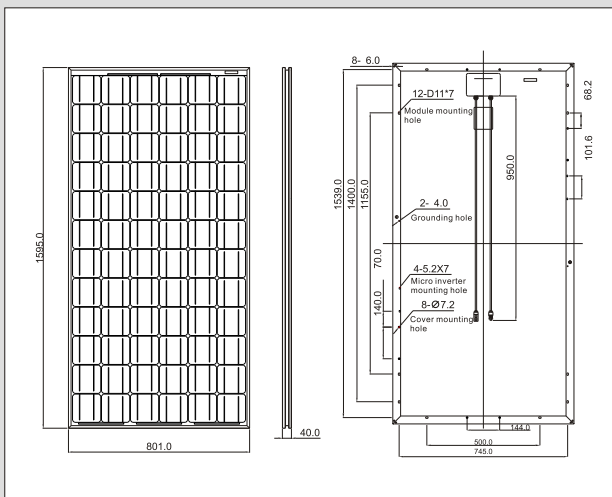
	CS5A-180MX	CS5A-185MX	CS5A-190MX	CS5A-195MX	CS5A-200MX
Nominal Maximum Power at STC (Pmax)	180W	185W	190W	195W	200W
Optimum Operating Voltage (Vmp)	36.1V	36.4V	36.6V	37V	37.4V
Optimum Operating Current (Imp)	4.99A	5.09A	5.18A	5.27A	5.35A
Open Circuit Voltage (Voc)	44.6V	44.6V	44.8V	45V	45.3V
Short Circuit Current (Isc)	5.34A	5.46A	5.52A	5.62A	5.71A
Operating Temperature	-40°C~+85°C				
Maximum System Voltage	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

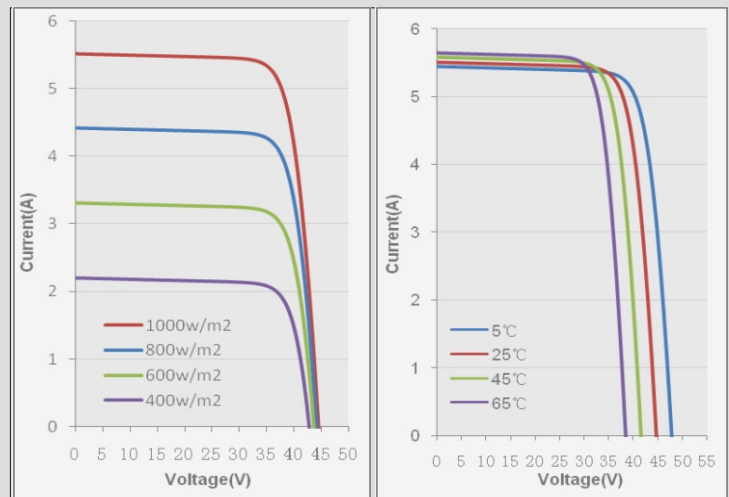
Cell Type	Mono-crystalline
Cell Arrangement	72 (6 x 12)
Dimensions	1595 x 801 x 40 mm (62.8 x 31.5 x 1.57 in)
Weight	15.5kg (34.2 lbs)
Front Cover	Tempered glass
Frame Material	Anodized aluminium alloy
Standard Packaging (Modules per Pallet)	20pcs

Engineering Drawings



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

I-V Curves (CS5A-190MX)



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. In 2009, Canadian Solar's full year shipment was 325.5 MW with a module capacity of 820MW.

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