



increasing the energy output of the module and Canadian Solar's new SuperPower modules with Mono-PERC cells significantly improve efficiency and reliability. The innovative technology offers morning, in the evening and on cloudy days, superior low irradiance performance in the the overall yield of the solar system.

KEY FEATURES



11 % more power than conventional modules



Excellent performance at low irradiance of up to: 97.5 %



High PTC rating of up to: 91.90 %



Improved energy production due to low

temperature coefficients

IP68 junction box for long-



term weather endurance





Heavy snow load up to 6000 Pa, wind load up to 4000 Pa *



linear power output warranty



product warranty on materials and workmanship

MANAGEMENT SYSTEM CERTIFICATES*

OHSAS 18001:2007 / International standards for occupational health & safety ISO 9001;2008 / Quality management system ISO 14001:2004 / Standards for environmental management system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: TÜV-Rheinland / VDE / CE / MCS / CEC AU / JET UL 1703 / IEC 61215 performance: CEC listed (US) / FSEC (US Florida) : CSA / IEC 61701 ED2: VDE / IEC 62716: VDE UL 1703:

UNI 9177 Reaction to Fire: Class 1 IEC 60068-2-68: SGS

Take-e-way







CERT CERT CONTINUES OF STORY

* Please contact your local Canadian Solar sales representative for the specific product certificates applicable in your market.

customers around the world. As a leading PV project developer and manufacturer of solar modules with over 21 GW deployed quality solar products, solar system solutions and services to around the world since 2001, Canadian Solar Inc. (NASDAQ: CSIQ) is one of the most bankable solar companies worldwide. **CANADIAN SOLAR INC.** is committed to providing high

*For detail information, please refer to Installation Manual.

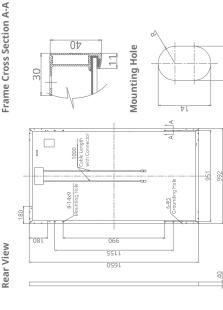
CANADIAN SOLAR INC.

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ENGINEERING DRAWING (mm)

CS6K-295MS / I-V CURVES

Rear View



30 25 20 15 10 32 30 25 20 5 10 15 1000 W/m² 800 W/m²

ELECTRICAL DATA | STC*

product can be provided upon

request.

*Black frame

CS6K	290MS 295MS 300MS 305MS	295MS	300MS	305MS
Nominal Max. Power (Pmax) 290 W	290 W	295 W	300 W	305 W
Opt. Operating Voltage (Vmp) 32.1 V 32.3 V 32.5 V 32.7 V	32.1 V	32.3 V	32.5 V	32.7 V
Opt. Operating Current (Imp) 9.05 A 9.14 A 9.24 A 9.33 A	9.05 A	9.14 A	9.24 A	9.33 A
Open Circuit Voltage (Voc)	39.3 V	39.3 V 39.5 V 39.7 V	39.7 V	39.9 V
Short Circuit Current (Isc)	9.67 A	9.67 A 9.75 A 9.83 A 9.91 A	9.83 A	9.91 A
Module Efficiency	17.72%	17.72% 18.02% 18.33% 18.63%	18.33%	18.63%
Operating Temperature	-40°C -	-40°C ~ +85°C		
Max. System Voltage	1000 V	1000 V (IEC) or 1000 V (UL)	1000 V (UL)
Module Fire Performance	TYPE 1	TYPE 1 (UL 1703) or	3) or	
	CLASS	CLASS C (IEC 61730)	1730)	
Max. Series Fuse Rating	15 A			
Application Classification	Class A	4		
Power Tolerance	$0 \sim +5 \text{ W}$	X		

1650×992×40 mm (65.0×39.1×1.57 in)

Mono-crystalline, 6 inch

Data

Specification

Cell Type

MECHANICAL DATA

600 W/m² 400 W/m²

60 (6×10)

Cell Arrangement

Dimensions

27 pieces, 538 kg (1186.1 lbs)

Per Container (40' HQ) 756 pieces

4.0 mm² (IEC), 12 AWG (UL),

IP68, 3 diodes

1000 mm (39.4 in)

Connector Per Pallet

Cable J-Box

Anodized aluminium alloy

Frame Material

Front Cover

Weight

3.2 mm tempered glass

18.2 kg (40.1 lbs)

ELECTRICAL DATA | NMOT*

-0.39 % /°C -0.29 % /°C 0.05 % /°C

Temperature Coefficient (Pmax)

Specification

Temperature Coefficient (Voc) Temperature Coefficient (Isc)

Data

TEMPERATURE CHARACTERISTICS

CS6K	290MS	295MS	290MS 295MS 300MS 305MS	305MS
Nominal Max. Power (Pmax)	215 W	218 W	215 W 218 W 222 W 226 W	226 W
Opt. Operating Voltage (Vmp) 29.7 V	29.7 V		29.8 V 30.0 V 30.2 V	30.2 V
Opt. Operating Current (Imp) 7.24 A 7.32 A 7.40 A 7.48 A	7.24 A	7.32 A	7.40 A	7.48 A
Open Circuit Voltage (Voc)	36.8 V	37.0 V	36.8 V 37.0 V 37.2 V 37.4 V	37.4 V
Short Circuit Current (Isc)	7.81 A	7.87 A	7.81 A 7.87 A 7.93 A 8.00 A	8.00 A

Nominal Module Operating Temperature (NMOT) 42 ± 2 °C

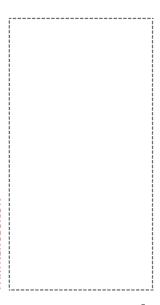
PERFORMANCE AT LOW IRRADIANCE

Excellent performance at low irradiance, with an average relative efficiency of 97.5 % for irradiances between 200 W/m² and 1000 W/m² (AM 1.5, 25°C).

The aforesaid datasheet only provides the general information on Canadian Solar products and, due to the on-going innovation and improvement, please always contact your local Canadian Solar sales representative for the updated information on specifications, key features and certification requirements of Canadian Solar products in your region.

Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

PARTNER SECTION



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 $^{^{\}star}$ Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

^{*} Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20° C, wind speed 1 m/s.