



1500 V CS6K-275|280|285M

Canadian Solar's new 1500 V module is a product for high voltage systems, which can increase the string length of solar systems by up to 50%, saving BOS costs.

KEY FEATURES



Designed for high voltage systems of up to 1500 V_{DC}, saving on BoS costs



Excellent module efficiency of up to 17.41 %



High PTC rating of up to 90.7 %



Outstanding low irradiance performance of up to 96.5 %



IP67 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*

ISO 9001:2008 / Quality management system

ISO 14001:2004 / Standards for environmental management system

OHSAS 18001:2007 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: VDE / CE / MCS

UL 1703 / IEC 61215 performance: CEC listed (US)

UL 1703: CSA / IEC 61701 ED2: VDE / IEC 62716: VDE

UNI 9177 Reaction to Fire: Class 1

Take-e-way



* As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

CANADIAN SOLAR (USA), INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. As a leading PV project developer and manufacturer of solar modules with over 17 GW deployed around the world since 2001, Canadian Solar Inc. (NASDAQ: CSIQ) is one of the most bankable solar companies worldwide.

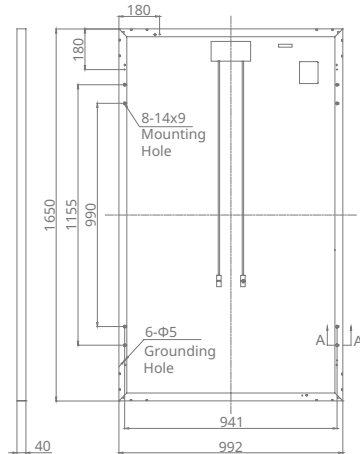
*For detail information, please refer to Installation Manual.

CANADIAN SOLAR (USA), INC.

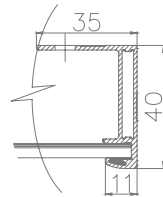
2430 Camino Ramon, Suite 240 San Ramon, CA, USA 94583-4385 | www.canadiansolar.com/na | sales.us@canadiansolar.com

ENGINEERING DRAWING (mm)

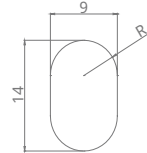
Rear View



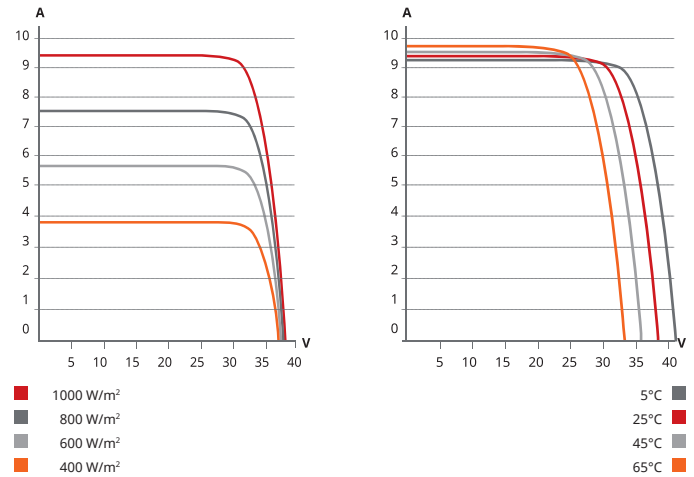
Frame Cross Section A-A



Mounting Hole



CS6K-280M / I-V CURVES



ELECTRICAL DATA / STC*

CS6K	275 M	280 M	285 M
Nominal Max. Power (P _{max})	275 W	280 W	285 W
Opt. Operating Voltage (V _{mp})	31.3 V	31.5 V	31.7 V
Opt. Operating Current (I _{mp})	8.80 A	8.89 A	8.98 A
Open Circuit Voltage (V _{oc})	38.3 V	38.5 V	38.6 V
Short Circuit Current (I _{sc})	9.31 A	9.43 A	9.51 A
Module Efficiency	16.80%	17.11%	17.41%
Operating Temperature	-40°C ~ +85°C		
Max. System Voltage	1500 V (IEC) or 1500 V (UL)		
Module Fire Performance	TYPE 1 (UL 1703) or CLASS C (IEC 61730)		
Max. Series Fuse Rating	15 A		
Application Classification	Class A		
Power Tolerance	0 ~ + 5 W		

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

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline, 6 inch
Cell Arrangement	60 (6 x 10)
Dimensions	1650 x 992 x 40 mm (65.0 x 39.1 x 1.57 in)
Weight	18.2 kg (40.1 lbs)
Front Cover	3.2 mm tempered glass
Frame Material	Anodized aluminium alloy
J-Box	IP67, 3 diodes
Cable	PV1500 _{DC} -F1 4 mm ² (IEC) & 12 AWG 2000 V (UL), 1000 mm (39.4 in)
Connector	T4 (IEC/UL)
Per Pallet	26 pieces, 520 kg (1146.4 lbs)
Per Container (40' HQ)	728 pieces

ELECTRICAL DATA / NOCT*

CS6K	275 M	280 M	285 M
Nominal Max. Power (P _{max})	199 W	202 W	206 W
Opt. Operating Voltage (V _{mp})	28.5 V	28.7 V	28.9 V
Opt. Operating Current (I _{mp})	6.95 A	7.04 A	7.12 A
Open Circuit Voltage (V _{oc})	35.1 V	35.3 V	35.4 V
Short Circuit Current (I _{sc})	7.54 A	7.63 A	7.70 A

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

TEMPERATURE CHARACTERISTICS

Specification	Data
Temp. Coefficient (P _{max})	-0.41 % / °C
Temp. Coefficient (V _{oc})	-0.31 % / °C
Temp. Coefficient (I _{sc})	0.053 % / °C
Nominal Operating Cell Temperature	45±2 °C

PERFORMANCE AT LOW IRRADIANCE

Outstanding performance at low irradiance, with an average relative efficiency of 96.5 % from irradiances, between 200 W/m² and 1000 W/m² (AM 1.5, 25°C).

The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to on-going innovation, research and product enhancement, Canadian Solar Inc. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

Caution: For professional use only. The installation and handling of PV modules requires professional skills and should only be performed by qualified professionals. Please read the safety and installation instructions before using the modules.

PARTNER SECTION

