



## HIGH EFFICIENCY POLY MODULE

**CS6K-285 | 290 | 295P (IEC1000V)**

**CS6K-285 | 290 | 295P (IEC1500V)**

Canadian Solar's modules use the latest innovative poly-  
PERC cell technology, increasing module power output  
and system reliability, ensured by 16 years of experience  
in module manufacturing, well-engineered module  
design, stringent BOM quality testing, an automated  
manufacturing process and 100% EL testing.

### KEY FEATURES



Excellent module efficiency of  
up to: 18.02 %



IP68 junction box for long-term  
weather endurance



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



High PTC rating of up to: 92.21 %



**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



\* If you need specific product certificates, and if module installations are to deviate  
from our guidance specified in our installation manual, please contact your local  
Canadian Solar sales and technical representatives.

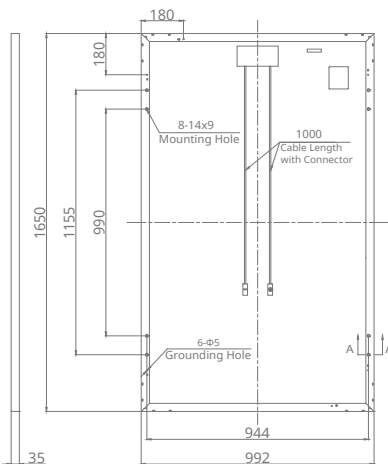
**CANADIAN SOLAR INC.** is committed to providing high  
quality solar products, solar system solutions and services to  
customers around the world. As a leading PV project developer  
and manufacturer of solar modules with over 25 GW deployed  
around the world since 2001, Canadian Solar Inc. is one of the  
most bankable solar companies worldwide.

\*For detailed information, please refer to the Installation Manual.

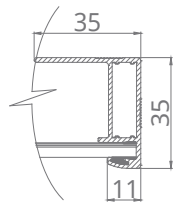
**CANADIAN SOLAR INC.** Canadian Solar MSS (Australia) Pty Ltd., 44 Stephenson St, Cremorne VIC 3121, Australia  
support@canadiansolar.com, www.canadiansolar.com/au

## ENGINEERING DRAWING (mm)

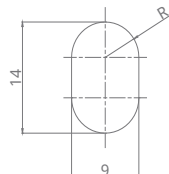
### Rear View



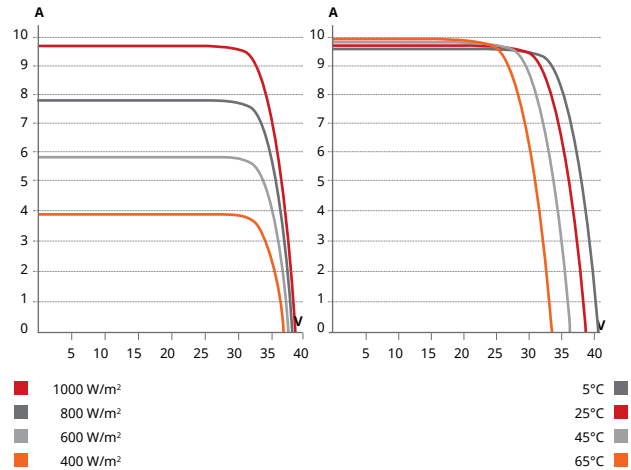
### Frame Cross Section A-A



### Mounting Hole



## CS6K-295P / I-V CURVES



## ELECTRICAL DATA | STC\*

CS6K	285P	290P	295P
Nominal Max. Power (P <sub>max</sub> )	285 W	290 W	295 W
Opt. Operating Voltage (V <sub>mp</sub> )	31.4 V	31.6 V	31.8 V
Opt. Operating Current (I <sub>mp</sub> )	9.06 A	9.18 A	9.28 A
Open Circuit Voltage (V <sub>oc</sub> )	38.3 V	38.5 V	38.6 V
Short Circuit Current (I <sub>sc</sub> )	9.64 A	9.72 A	9.81 A
Module Efficiency	17.41%	17.72%	18.02%
Operating Temperature	-40°C ~ +85°C		
Max. System Voltage	1000 V (IEC/UL) or 1500 V (IEC/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/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C. Measurement uncertainty: ±3% (P<sub>max</sub>).

## MECHANICAL DATA

Specification	Data
Cell Type	Poly-crystalline, 6 inch
Cell Arrangement	60 (6 × 10)
Dimensions	1650 × 992 × 35 mm (65.0 × 39.1 × 1.38 in)
Weight	18.2 kg (40.1 lbs)
Front Cover	3.2 mm tempered glass
Frame Material	Anodized aluminium alloy
J-Box	IP68, 3 diodes
Cable	4.0 mm <sup>2</sup> (IEC), 12 AWG (UL), 1000 mm (39.4 in)
Connector	T4 series (MC4 series is available)
Per Pallet	30 pieces
Per Container (40' HQ)	840 pieces

## ELECTRICAL DATA | NMOT\*

CS6K	285P	290P	295P
Nominal Max. Power (P <sub>max</sub> )	210 W	214 W	218 W
Opt. Operating Voltage (V <sub>mp</sub> )	28.9 V	29.1 V	29.3 V
Opt. Operating Current (I <sub>mp</sub> )	7.28 A	7.36 A	7.44 A
Open Circuit Voltage (V <sub>oc</sub> )	35.8 V	36.0 V	36.1 V
Short Circuit Current (I <sub>sc</sub> )	7.78 A	7.85 A	7.92 A

\* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

## TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (P <sub>max</sub> )	-0.39 % / °C
Temperature Coefficient (V <sub>oc</sub> )	-0.29 % / °C
Temperature Coefficient (I <sub>sc</sub> )	0.05 % / °C
Nominal Module Operating Temperature (NMOT)	43 ± 3 °C

## PERFORMANCE AT LOW IRRADIANCE

Outstanding performance at low irradiance, with an average relative efficiency of 96.5 % for irradiances between 200 W/m<sup>2</sup> and 1000 W/m<sup>2</sup> (AM 1.5, 25°C).

## PARTNER SECTION



\* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Canadian Solar Inc. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

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