

**DOUBLE-GLASS MODULE**

# DIAMOND CS6K-255/260P-PG

(PRELIMINARY)

Canadian Solar's Diamond module is a double-glass module. By replacing the traditional polymer backsheet with heat-strengthened glass, the Diamond module has less annual power degradation and is more reliable and durable during its lifetime. What's more, the Diamond module has no metal frame and is Potential Induced Degradation (PID) free because it requires no module level grounding, which eliminates the cause of PID.



**KEY FEATURES**



**PID free module**

- Anti-PID cell technology
- Anti-PID encapsulation technology
- No metal module frame



**Lower Annual Power Degradation & more system power yield over lifetime**

- First year annual degradation 2.5%, subsequent year 0.5%
- 85% power output at Year 25
- 83% power output at Year 30



Designed for high voltage systems of up to 1500 VDC, saving on BoS cost



**Sea-/waterside PV system installation**

- Glass backsheet blocks moisture permeability
- No module level corrosion



5400 Pa snow load, 2400 Pa wind load



**PRODUCT CERTIFICATES**

IEC 61215 / IEC 61730: VDE/CE

UL 1703: CSA (expected February, 2015)

CEC listing (expected February, 2015)



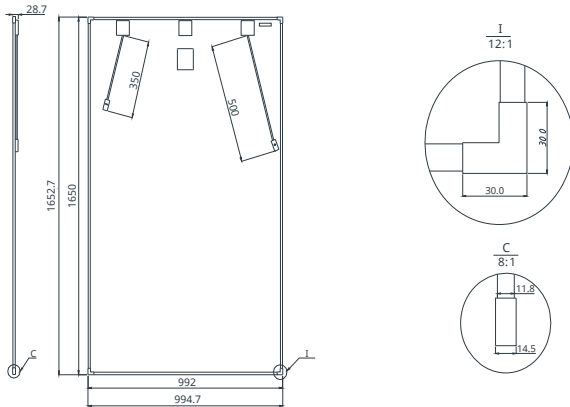
**CANADIAN SOLAR INC.** is committed to providing high quality solar products, solar system solutions and services to customers around the world. As a leading manufacturer of solar modules and PV project developer with about 8 GW of premium quality modules deployed around the world since 2011, Canadian Solar Inc. (NASDAQ: CSIQ) is one of the most bankable solar companies worldwide.

**CANADIAN SOLAR INC.**

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## MODULE / ENGINEERING DRAWING (mm)

### Rear View



### ELECTRICAL DATA / STC\*

Electrical Data CS6K	255P-PG	260P-PG
Nominal Max. Power (Pmax)	255 W	260 W
Opt. Operating Voltage (Vmp)	30.2 V	30.4 V
Opt. Operating Current (Imp)	8.43 A	8.56 A
Open Circuit Voltage (Voc)	37.4 V	37.5 V
Short Circuit Current (Isc)	9.00 A	9.12 A
Module Efficiency	15.58%	15.88%
Operating Temperature	-40°C ~ +85°C	
Max. System Voltage	1500 V(IEC) or 1000 V (UL)	
Module Fire Performance	Type 3 (UL 1703) or CLASS C (IEC61730)	
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.

### ELECTRICAL DATA / NOCT\*

Electrical Data CS6K	255P-PG	260P-PG
Nominal Max. Power (Pmax)	185 W	189 W
Opt. Operating Voltage (Vmp)	27.5 V	27.7 V
Opt. Operating Current (Imp)	6.71 A	6.80 A
Open Circuit Voltage (Voc)	34.4 V	34.5 V
Short Circuit Current (Isc)	7.29 A	7.39 A

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

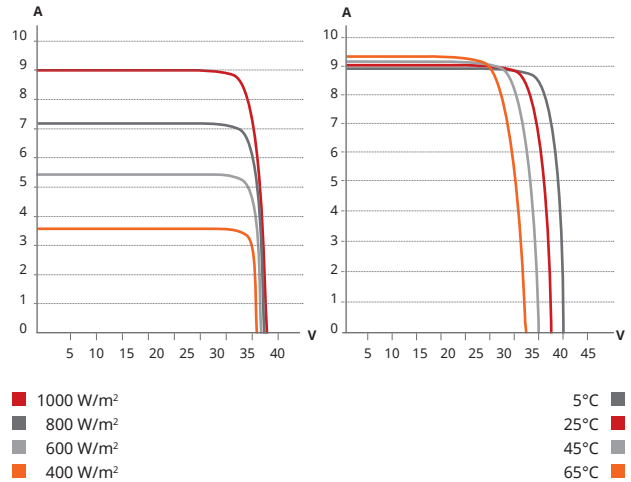
### PERFORMANCE AT LOW IRRADIANCE

Industry leading performance at low irradiation, +96.5 % module efficiency from an irradiance of 1000 W/m<sup>2</sup> to 200 W/m<sup>2</sup> (AM 1.5, 25°C).

\*The application of this short length cable can only be used in portrait installation (clamping mounting method) systems in which the distance between modules should be less than or equal to 50 mm. In the event the distance between the PV modules to be installed is more than 50 mm, please make sure to consult our technical team for evaluation and advice.

As there are different certification requirements in different markets, please contact your sales representative for the specific certificates applicable to your products. 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.

## CS6K-255P-PG / I-V CURVES



### MODULE / MECHANICAL DATA

Specification	Data
Cell Type	Poly-crystalline, 6 inch
Cell Arrangement	60 (6 × 10)
Dimensions	1650 × 992 × 27.3 mm (65.0 × 39.1 × 1.07 in)
(Incl. corner protector)	1652.70 × 994.70 × 28.7 mm (65.07 × 39.16 × 1.13 in)
Weight	23 kg (50.7 lbs)
Front Cover	2.5 mm heat strengthened glass
Black Glass	2.5 mm heat strengthened glass
Frame Material	Plastic
J-BOX	IP67, 3 diodes
Cable	4 mm <sup>2</sup> (IEC) or 12 AWG (UL), 500 mm (positive) and 350 mm (negative)*, 1000 mm cable is optional for landscape installation
Connectors	MC4 or MC4 comparable
Stand. Packaging	30 pcs
Module Pieces per Container	780 pcs (40'HQ)

### TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.43% / °C
Temperature Coefficient (Voc)	-0.34% / °C
Temperature Coefficient (Isc)	0.065% / °C
Nominal Operating Cell Temperature	45±2°C

### PARTNER SECTION

