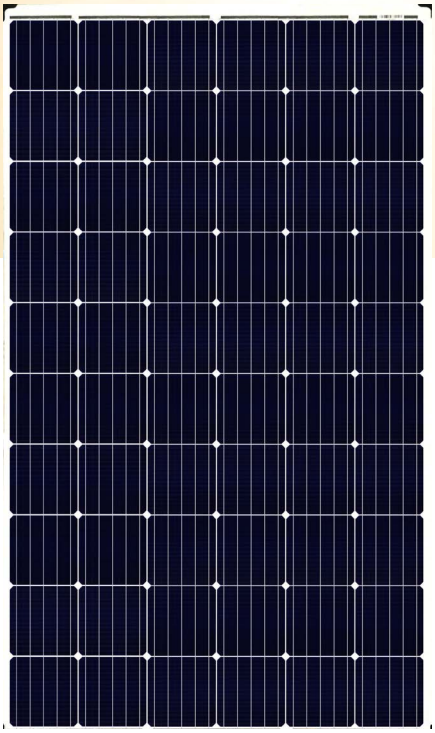
DOUBLE-GLASS MODULE

DYMOND
CS6K-275|280|285M-FG

Canadian Solar's Dymond CS6K-M-FG module is a 60 cell double-glass module with an extended power output warranty. By replacing the traditional polymer backsheet with heat-strengthened glass, the Dymond module has a lower annual power degradation than a traditional module and better protection against the elements, making it more reliable and durable during its lifetime.



*Transparent double-glass module can be provided upon request.

KEY FEATURES

- 1500 V — Up to IEC1500 V_{DC} system voltage, saving on BoS cost
- Minimizes micro-cracks and prevents snail trails
- 20 % more energy generation
- Suitable for harsh environments, such as coasts, deserts and lakes
- Fire Class A certified according to IEC 61730-2 / MST 23
- *** — 5400 Pa snow load, 2400 Pa wind load

30 years **power output warranty**

10 years **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 / CEC AU
UL 1703: CSA / IEC 61701 ED2: VDE
UL 1703 / IEC 61215 performance: CEC listed (US)
IEC 60068-2-68: SGS / UNI 9177 Reaction to Fire: Class 1
Take-e-way

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

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 20 GW deployed around the world since 2001, Canadian Solar Inc. (NASDAQ: CSIQ) is one of the most bankable solar companies worldwide.

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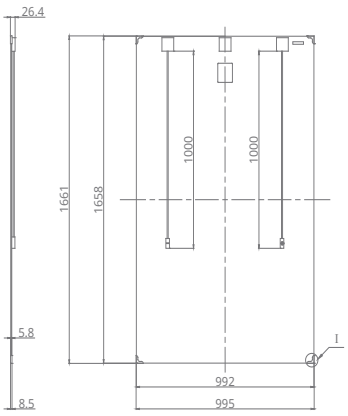
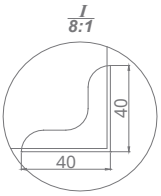
ENGINEERING DRAWING (mm)

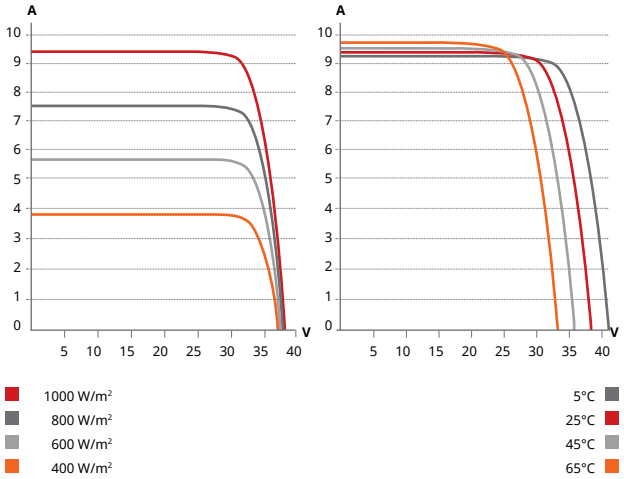
Rear View



Corner Protector Detail



CS6K-280M-FG / I-V CURVES



ELECTRICAL DATA | STC*

CS6K	275M-FG	280M-FG	285M-FG
Nominal Max. Power (Pmax)	275 W	280 W	285 W
Opt. Operating Voltage (Vmp)	31.3 V	31.5 V	31.7 V
Opt. Operating Current (Imp)	8.80 A	8.89 A	8.98 A
Open Circuit Voltage (Voc)	38.3 V	38.5 V	38.6 V
Short Circuit Current (Isc)	9.31 A	9.43 A	9.51 A
Module Efficiency	16.72%	17.02%	17.33%
Operating Temperature	-40°C ~ +85°C		
Max. System Voltage	1500 V (IEC) or 1000 V (UL)		
Module Fire Performance	CLASS A (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.

ELECTRICAL DATA | NMOT*

CS6K	275M-FG	280M-FG	285M-FG
Nominal Max. Power (Pmax)	202 W	206 W	209 W
Opt. Operating Voltage (Vmp)	28.8 V	29.0 V	29.2 V
Opt. Operating Current (Imp)	7.02 A	7.10 A	7.18 A
Open Circuit Voltage (Voc)	35.7 V	35.9 V	35.9 V
Short Circuit Current (Isc)	7.52 A	7.62 A	7.68 A

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

PERFORMANCE AT LOW IRRADIANCE

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

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline, 6 inch
Cell Arrangement	60 (6×10)
Dimensions	1658×992×5.8 mm (65.3×39.1×0.23 in) without J-Box and corner protector
(Incl. corner protector)	1661×995×8.5 mm (65.4×39.2×0.33 in) without J-Box
Weight	23 kg (50.7 lbs)
Front / Back Glass	2.5 mm heat strengthened glass
Frame	Frameless
J-Box	Split J-Box, IP67, 3 diodes
Cable	4.0 mm² (IEC), 12 AWG (UL)
Cable Length	1000 mm (39.4 in), 500 mm (19.7 in) (+) and 350 mm (13.8 in) (-) is optional for portrait installation*
Connectors	T4 series
Per Pallet	30 pieces, 755 kg (1664.5 lbs)
Per Container (40' HQ)	780 pieces

* The application of this short length cable can only be used in landscape 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.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.41 % / °C
Temperature Coefficient (Voc)	-0.31 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature (NMOT)	43±2 °C

PARTNER SECTION

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.