



*Black frame product can be provided upon request.

CS6K-270|275|280P

Canadian Solar's modules use the latest innovative 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: 17.11 %



High PTC rating of up to: 92.21 %



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*

ISO 9001:2015 / Quality management system

ISO 14001:2015 / 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 / INMETRO

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

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

UNI 9177 Reaction to Fire: Class 1

IEC60068-2-68:SGS

Take-e-way



* We can provide this product with special BOM specifically certified with salt mist, ammonia and sand blowing tests. Please talk to our local technical sales representatives to get your customized solutions.

CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 30 GW deployed around the world since 2001.

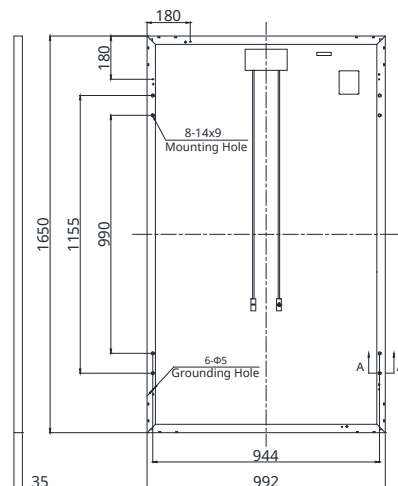
*For detailed information, please refer to the Installation Manual.

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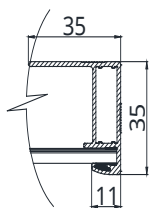
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com

ENGINEERING DRAWING (mm)

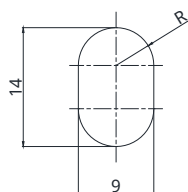
Rear View



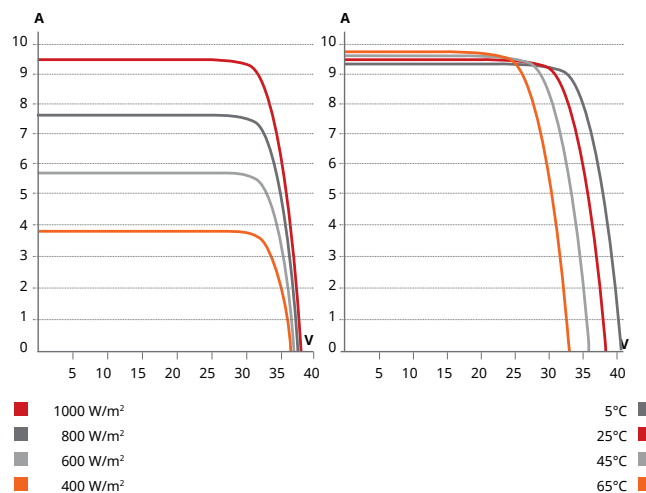
Frame Cross Section A-A



Mounting Hole



CS6K-280P / I-V CURVES



ELECTRICAL DATA | STC*

| CS6K | 270P | 275P | 280P |
|------------------------------|---|--------|--------|
| Nominal Max. Power (Pmax) | 270 W | 275 W | 280 W |
| Opt. Operating Voltage (Vmp) | 30.8 V | 31.0 V | 31.3 V |
| Opt. Operating Current (Imp) | 8.75 A | 8.88 A | 8.95 A |
| Open Circuit Voltage (Voc) | 37.9 V | 38.0 V | 38.2 V |
| Short Circuit Current (Isc) | 9.32 A | 9.45 A | 9.52 A |
| Module Efficiency | 16.50% | 16.80% | 17.11% |
| 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/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA | NMOT*

| CS6K | 270P | 275P | 280P |
|------------------------------|--------|--------|--------|
| Nominal Max. Power (Pmax) | 199 W | 202 W | 206 W |
| Opt. Operating Voltage (Vmp) | 28.3 V | 28.5 V | 28.8 V |
| Opt. Operating Current (Imp) | 7.01 A | 7.10 A | 7.16 A |
| Open Circuit Voltage (Voc) | 35.3 V | 35.4 V | 35.6 V |
| Short Circuit Current (Isc) | 7.52 A | 7.63 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).

* 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. 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.

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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 bypass diodes |
| Cable | 4.0 mm ² (IEC), 12 AWG (UL), 1000 mm (39.4 in) |
| Connector | T4 series |
| Per Pallet | 30 pieces |
| Per Container (40' HQ) | 840 pieces |

TEMPERATURE CHARACTERISTICS

| Specification | Data |
|---|--------------|
| Temperature Coefficient (Pmax) | -0.40 % / °C |
| Temperature Coefficient (Voc) | -0.31 % / °C |
| Temperature Coefficient (Isc) | 0.05 % / °C |
| Nominal Module Operating Temperature (NMOT) | 43 ± 3 °C |

PARTNER SECTION

