

CS6K-285 | 290 | 295 | 300 | 305 P HIGH EFFICIENCY POLY MODULE

Canadian Solar's modules use the latest innovative poly cell technology, increasing module power output and system reliability, ensured by 17 years of experience in module manufacturing, well-engineered module design, stringent BOM quality testing, an automated manufacturing process and 100% EL testing.



*Black frame product can be provided upon request.

KEY FEATURES



Excellent module efficiency of up to: 18.63 %



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: 92.90 %



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

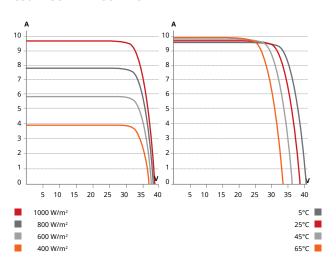
CANADIAN SOLAR INC.

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ENGINEERING DRAWING (mm)

Rear View Frame Cross Section A-A | Solution | Solut

CS6K-295P / I-V CURVES



ELECTRICAL DATA | STC*

CS6K	285P	290P	295P	300P	305P
Nominal Max. Power (Pmax)	285 W	290 W	295 W	300 W	305 W
Opt. Operating Voltage (Vmp)	31.4 V	31.6 V	31.8 V	32.0 V	32.1 V
Opt. Operating Current (Imp)	9.06 A	9.18 A	9.28 A	9.38 A	9.50 A
Open Circuit Voltage (Voc)	38.3 V	38.5 V	38.6 V	38.8 V	38.9 V
Short Circuit Current (Isc)	9.64 A	9.72 A	9.81 A	9.92 A	10.03 A
Module Efficiency	17.41%	17.72%	18.02%	18.33%	18.63%
Operating Temperature	-40°C	~ +85°C			
Max. System Voltage	1000 V (IEC/UL) or 1500 V (IEC/UL)				
Module Fire Performance	TYPE 1	(UL 17	03) or		
	CLASS	C (IEC 6	51730)		
Max. Series Fuse Rating	15 A				
Application Classification	Class /	4			
Power Tolerance	0 ~ + 5	S W			

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

MECHANICAL DATA

Data
Poly-crystalline, 6 inch
60 (6 × 10)
1650×992×35 mm
(65.0×39.1×1.38 in)
18.2 kg (40.1 lbs)
3.2 mm tempered glass
Anodized aluminium alloy
IP68, 3 bypass diodes
4.0 mm ² (IEC), 12 AWG (UL),
1000 mm (39.4 in)
T4 series
30 pieces
840 pieces

ELECTRICAL DATA | NMOT*

CS6K	285P	290P	295P	300P	305P
Nominal Max. Power (Pmax)	210 W	214 W	218 W	221 W	225 W
Opt. Operating Voltage (Vmp)	28.9 V	29.1 V	29.3 V	29.4 V	29.5 V
Opt. Operating Current (Imp)	7.28 A	7.36 A	7.44 A	7.52 A	7.62 A
Open Circuit Voltage (Voc)	35.8 V	36.0 V	36.1 V	36.3 V	36.4 V
Short Circuit Current (Isc)	7.78 A	7.85 A	7.92 A	8.01 A	8.10 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.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.39 % / °C
Temperature Coefficient (Voc)	-0.29 % / °C
Temperature Coefficient (Isc)	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/m² and 1000 W/m² (AM 1.5, 25°C).

PARTNER SECTION



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^{*} 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.