KuDymond
HIGH EFFICIENCY POLY MODULE
CS3K-295|300|305|310P-FG

MORE POWER
- Low power loss in cell connection
- Low NMOT: 42 ± 3 °C
- Low temperature coefficient (Pmax): -0.37 % / °C
- Better shading tolerance

MORE RELIABLE
- Lower hot spot temperature
- Minimizes micro-cracks
- Heavy snow load up to 5400 Pa,
  wind load up to 2400 Pa*
- Fire Class A and Type 3 / Type 13 certified
  according to IEC 61730-2 / MST 23 and UL 1703

*According to the applicable Canadian Solar Limited Warranty Statement.

30 years
linear power output warranty*

12 years
enhanced product warranty on materials
and workmanship*

As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

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 / CQC
- UL 1703; CSA / IEC 61701 ED2; VDE / IEC 62716; VDE / IEC 60068-2-68; SGS
- Take-e-way
- Fire Class A and Type 3 / Type 13 certified
  according to IEC 61730-2 / MST 23 and UL 1703

* As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

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 36 GW deployed around the world since 2001.

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

CANADIAN SOLAR INC.
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com
**ELECTRICAL DATA | STC**

- **Nominal Max. Power (Pmax)**: 
  - CS3K: 295 W
  - CS3K-295P-FG: 295 W
  - CS3K-300P-FG: 300 W
  - CS3K-305P-FG: 305 W
  - CS3K-310P-FG: 310 W

- **Opt. Operating Voltage (Vmp)**: 
  - CS3K: 32.5 V
  - CS3K-295P-FG: 32.5 V
  - CS3K-300P-FG: 32.7 V
  - CS3K-305P-FG: 32.9 V
  - CS3K-310P-FG: 33.1 V

- **Opt. Operating Current (Imp)**: 
  - CS3K: 9.08 A
  - CS3K-295P-FG: 9.08 A
  - CS3K-300P-FG: 9.18 A
  - CS3K-305P-FG: 9.28 A
  - CS3K-310P-FG: 9.37 A

- **Open Circuit Voltage (Voc)**: 
  - CS3K: 39.1 V
  - CS3K-295P-FG: 39.1 V
  - CS3K-300P-FG: 39.3 V
  - CS3K-305P-FG: 39.5 V
  - CS3K-310P-FG: 39.7 V

- **Short Circuit Current (Isc)**: 
  - CS3K: 9.57 A
  - CS3K-295P-FG: 9.57 A
  - CS3K-300P-FG: 9.65 A
  - CS3K-305P-FG: 9.73 A
  - CS3K-310P-FG: 9.81 A

- **Module Efficiency**: 
  - CS3K: 17.75%
  - CS3K-295P-FG: 17.75%
  - CS3K-300P-FG: 18.05%
  - CS3K-305P-FG: 18.36%
  - CS3K-310P-FG: 18.66%

- **Operating Temperature**: 
  - -40°C ~ +85°C

- **Max. System Voltage**: 
  - 1500V (IEC) or 1000V (IEC/UL)

- **Module Fire Performance**: 
  - TYPE 3 / Type 13 (UL 1703) or Class A (IEC61730)

- **Max. Series Fuse Rating**: 
  - 30 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.

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**ELECTRICAL DATA | NMOT**

- **Nominal Max. Power (Pmax)**: 
  - CS3K: 219 W
  - CS3K-295P-FG: 219 W
  - CS3K-300P-FG: 223 W
  - CS3K-305P-FG: 227 W
  - CS3K-290P-FG: 227 W
  - CS3K-295P-FG: 230 W

- **Opt. Operating Voltage (Vmp)**: 
  - CS3K: 30.2 V
  - CS3K-295P-FG: 30.2 V
  - CS3K-300P-FG: 30.4 V
  - CS3K-305P-FG: 30.6 V
  - CS3K-290P-FG: 30.8 V

- **Opt. Operating Current (Imp)**: 
  - CS3K: 7.26 A
  - CS3K-295P-FG: 7.26 A
  - CS3K-300P-FG: 7.34 A
  - CS3K-305P-FG: 7.42 A
  - CS3K-290P-FG: 7.49 A

- **Open Circuit Voltage (Voc)**: 
  - CS3K: 36.7 V
  - CS3K-295P-FG: 36.7 V
  - CS3K-300P-FG: 36.8 V
  - CS3K-305P-FG: 37.0 V
  - CS3K-290P-FG: 37.2 V

- **Short Circuit Current (Isc)**: 
  - CS3K: 7.72 A
  - CS3K-295P-FG: 7.72 A
  - CS3K-300P-FG: 7.78 A
  - CS3K-305P-FG: 7.85 A
  - CS3K-290P-FG: 7.91 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.

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**MECHANICAL DATA**

- **Cell Type**: Poly-crystalline
- **Cell Arrangement**: 120 [2 x (10 x 6)]
- **Dimensions**: 
  - 1675 X 992 X 5.8 mm (65.9 X 39.1 X 0.23 in) without J-Box and corner protector
  - 1678 X 995 X 8.5 mm (66.1 X 39.2 X 0.33 in) without J-Box
- **Weight**: 24 kg (52.9 lbs)
- **Front / Back Glass**: 2.5 mm heat strengthened glass
- **Frame**: Frameless
- **J-Box**: IP68, 3 bypass diodes
- **Cable**: 4.0 mm² (IEC), 12 AWG (UL)
- **Cable Length (Including Connector)**: 
  - Portrait: 400 mm (15.7 in) (+) / 280 mm (-) / 1160 mm (45.7 in)*
- **Connector**: T4 series or H4 UTX or MC4-EVO2
- **Per Pallet**: 33 pieces
- **Per Container (40' HQ)**: 858 pieces

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

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**TEMPERATURE CHARACTERISTICS**

- **Temperature Coefficient (Pmax)**: -0.37 % / °C
- **Temperature Coefficient (Voc)**: -0.29 % / °C
- **Temperature Coefficient (Isc)**: 0.05 % / °C
- **Nominal Module Operating Temperature**: 42 ± 3°C

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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 adjustments 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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**PARTNER SECTION**

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**CANADIAN SOLAR INC.**

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