



# KuDymond

## CS3U-335 | 340 | 345P-FG

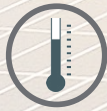
Canadian Solar's KuDymond CS3U-P-FG module is a high power double-glass module with poly cell technology and the industry leading innovative LIC (Low Internal Current) module technology.

The KuDymond poly modules can reach up to 345 W with the following unique features:

- **Higher** power classes for equivalent module sizes
- **High** module efficiency up to 17.39 %
- **LOW** hot spot temperature risk
- **LOW** temperature coefficient (Pmax): -0.38 % / °C
- **LOW NMOT** (Nominal Module Operating Temperature): 42 ± 3 °C



Low NMOT: 42 ± 3 °C  
Low temperature coefficient (Pmax): -0.38 % / °C



Lower hot spot temperature



Minimizes micro-cracks and prevents snail trails



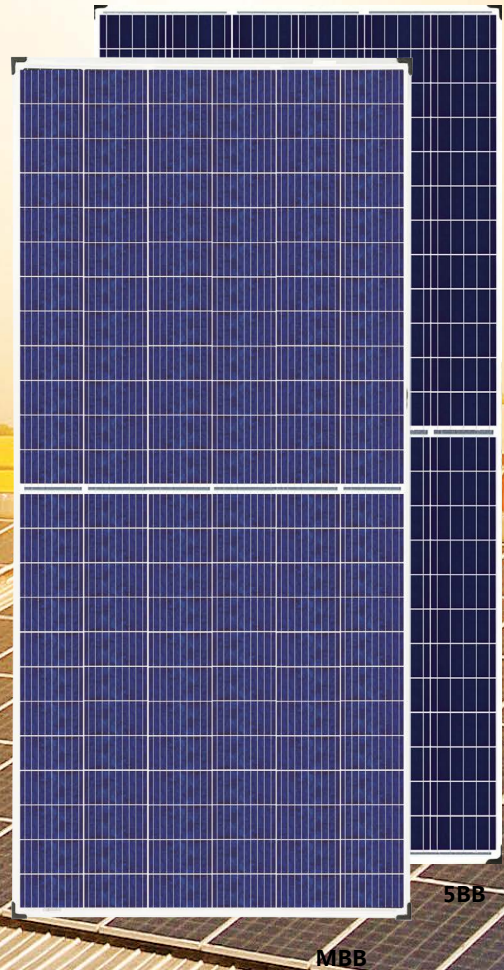
Heavy snow load up to 5400 Pa, wind load up to 2400 Pa



Fire Class A and Type 3 / Type 13 certified according to IEC 61730-2 / MST 23 and UL 1703



Low BoS cost with 1500 VDC system voltage



\*Transparent doubleglass module can be provided upon request.



linear power output warranty



product warranty on materials and workmanship

### PRODUCT CERTIFICATES\*

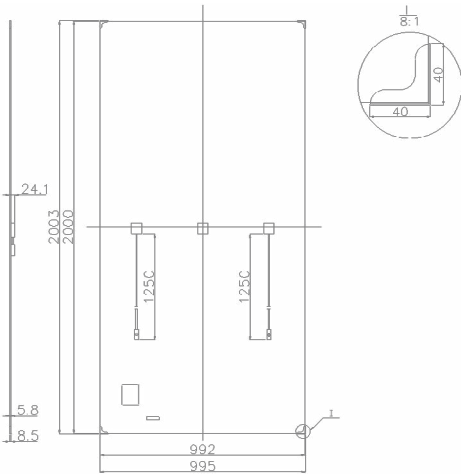
IEC 61215 / IEC 61730: VDE / CE



\* If you need specific product certificates, and if module installations are to deviate from our guidance specified in our installation manual, please contact your local Canadian Solar sales and technical representatives.

## ENGINEERING DRAWING (mm)

### Rear View



### ELECTRICAL DATA | STC\*

| CS3U                         | 335P-FG   | 340P-FG | 345P-FG |
|------------------------------|---|---------|---------|
| Nominal Max. Power (Pmax)    | 335 W   | 340 W   | 345 W   |
| Opt. Operating Voltage (Vmp) | 38.2 V  | 38.4 V  | 38.6 V  |
| Opt. Operating Current (Imp) | 8.77 A  | 8.86 A  | 8.94 A  |
| Open Circuit Voltage (Voc)   | 45.7 V  | 45.9 V  | 46.1 V  |
| Short Circuit Current (Isc)  | 9.28 A  | 9.36 A  | 9.44 A  |
| Module Efficiency            | 16.89%  | 17.14%  | 17.39%  |
| Operating Temperature        | -40°C ~ +85°C                                       |         |         |
| Max. System Voltage          | 1500V (IEC) or 1000V (IEC/UL)                       |         |         |
| Module Fire Performance      | TYPE 3 / Type 13 (UL 1703)<br>or CLASS A (IEC61730) |         |         |
| Max. Series Fuse Rating      | 30 A  |         |         |
| Application Classification   | Class A   |         |         |
| Power Tolerance              | 0 ~ + 5 W   |         |         |

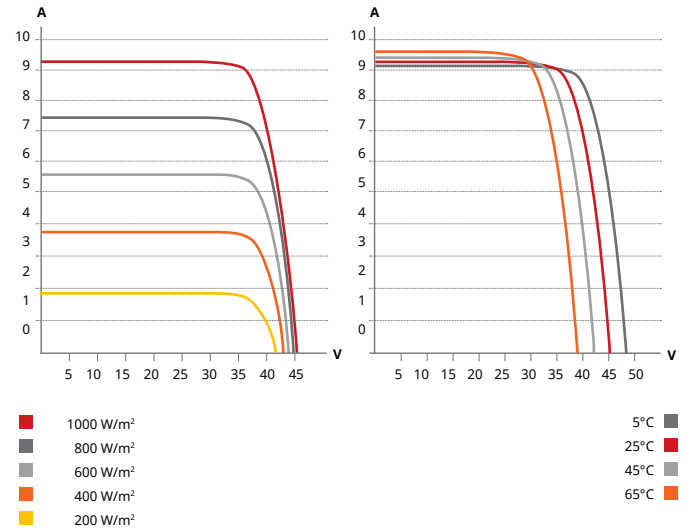
\* Under Standard Test Conditions (STC) of irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

### ELECTRICAL DATA | NMOT\*

| CS3U                         | 335P-FG | 340P-FG | 345P-FG |
|------------------------------|---------|---------|---------|
| Nominal Max. Power (Pmax)    | 249 W   | 252 W   | 256 W   |
| Opt. Operating Voltage (Vmp) | 35.3 V  | 35.5 V  | 35.7 V  |
| Opt. Operating Current (Imp) | 7.04 A  | 7.11 A  | 7.18 A  |
| Open Circuit Voltage (Voc)   | 42.7 V  | 42.9 V  | 43.1 V  |
| Short Circuit Current (Isc)  | 7.49 A  | 7.55 A  | 7.62 A  |

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

## CS3U-340P-FG / I-V CURVES



### MECHANICAL DATA

| Specification            | Data  |
|--------------------------|---|
| Cell Type                | Poly-crystalline, 156.75 X 78.38 mm   |
| Cell Arrangement         | 144 [2 x (12 x 6)]  |
| Dimensions               | 2000 X 992 X 5.8 mm (78.7 X 39.1 X 0.23 in)<br>without J-Box and corner protector |
| (Incl. corner protector) | 2003 X 995 X 8.5 mm (78.9 X 39.2 X 0.33 in)<br>without J-Box                      |
| Weight                   | 29 kg (63.9 lbs)  |
| Front / Back Glass       | 2.5 mm heat strengthened glass  |
| Frame                    | Frameless   |
| J-Box                    | IP68, 3 bypass diodes   |
| Cable                    | 4.0 mm <sup>2</sup> (IEC), 12 AWG (UL),<br>1250 mm (49.2 in)                      |
| Connector                | T4 series   |
| Per Pallet               | 30 pieces   |
| Per Container (40' HQ)   | 660 pieces  |

### TEMPERATURE CHARACTERISTICS

| Specification                        | Data         |
|--------------------------------------|--------------|
| Temperature Coefficient (Pmax)       | -0.38 % / °C |
| Temperature Coefficient (Voc)        | -0.31 % / °C |
| Temperature Coefficient (Isc)        | 0.05 % / °C  |
| Nominal Module Operating Temperature | 42 ± 3°C     |

### PARTNER SECTION



\* 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.

## CANADIAN SOLAR INC.

545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, [www.canadiansolar.com](http://www.canadiansolar.com), [support@canadiansolar.com](mailto:support@canadiansolar.com)