



Certificate of Compliance

Certificate: 2655017

Master Contract: 249143

Project: 80040043

Date Issued: 2020-04-21

Issued to: Canadian Solar Inc
545 Speedvale Ave West
Guelph, Ontario N1K 1E6
CANADA

Attention: Yuan Zhou

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: Simon Shen
Simon Shen

PRODUCTS

CLASS - C531110 - POWER SUPPLIES-Photovoltaic Modules and Panels

CLASS - C531190 - POWER SUPPLIES-Photovoltaic Modules and Panels - Certified to US Standards

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS6X-XXXP-FG where 'XXX' is the power output from 290 W to 360 W with the following electrical rating typical at 360 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	46.5 V
Short Circuit Current (Isc):	9.92 A
Operating Voltage (V _{pmax}):	38.3 V
Current at Operating Voltage (I _{pmax}):	9.40 A

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS6K-XXXP-FG, CS6K-XXXP-PG where 'XXX' is the power output from 245 W to 300 W with the following electrical rating typical at 300 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	38.8 V
Short Circuit Current (Isc):	9.92 A
Operating Voltage (V _{pmax}):	32.0 V



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Current at Operating Voltage (Ipmax): 9.38 A

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS6X-XXXM-FG where 'XXX' is the power output from 290 W to 360 W with the following electrical rating typical at 360 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc): 46.9 V
Short Circuit Current (Isc): 9.78 A
Operating Voltage (Vpmax): 38.7 V
Current at Operating Voltage (Ipmax): 9.31 A

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS6K-XXXM-FG, CS6K-XXXMS-FG where 'XXX' is the power output from 245 W to 305 W with the following electrical rating typical at 305 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc): 39.9 V
Short Circuit Current (Isc): 9.75 A
Operating Voltage (Vpmax): 32.9 V
Current at Operating Voltage (Ipmax): 9.27 A

Photovoltaic Modules with maximum system voltage of 1000 V dc or 1500 V dc, Class A, Model Series CS6K-XXXP-AG where 'XXX' is the power output from 245 W to 300 W with the following electrical rating typical at 300 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc): 38.8 V
Short Circuit Current (Isc): 9.92 A
Operating Voltage (Vpmax): 32.0 V
Current at Operating Voltage (Ipmax): 9.38 A

Photovoltaic Modules with maximum system voltage of 1000 V dc or 1500 V dc, Class A, Model Series CS6K-XXXM-AG, CS6K-XXXMS-AG where 'XXX' is the power output from 200 W to 305 W with the following electrical rating typical at 305 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc): 39.9 V
Short Circuit Current (Isc): 9.75 A
Operating Voltage (Vpmax): 32.9 V
Current at Operating Voltage (Ipmax): 9.27 A

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS3U-XXXMS-FG where 'XXX' is the power output from 350 W to 410 W with the following electrical rating typical at 410 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc): 49.0 V
Short Circuit Current (Isc): 10.49 A
Operating Voltage (Vpmax): 41.2 V
Current at Operating Voltage (Ipmax): 9.96 A



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Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS3U-XXXP-FG where 'XXX' is the power output from 310 W to 405 W with the following electrical rating typical at 405 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	49.2 V
Short Circuit Current (Isc):	10.37 A
Operating Voltage (Vpmax):	41.4 V
Current at Operating Voltage (Ipmax):	9.79 A

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS3K-XXXMS-FG where 'XXX' is the power output from 250 W to 330 W with the following electrical rating typical at 330 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	40.5 V
Short Circuit Current (Isc):	10.30 A
Operating Voltage (Vpmax):	33.7 V
Current at Operating Voltage (Ipmax):	9.80 A

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS3K-XXXP-FG where 'XXX' is the power output from 270 W to 335 W with the following electrical rating typical at 335 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	41.3 V
Short Circuit Current (Isc):	10.37 A
Operating Voltage (Vpmax):	34.1 V
Current at Operating Voltage (Ipmax):	9.83 A

Photovoltaic Modules with maximum system voltage of 1000 V dc or 1500 V dc, Class A, Model Series CS3U-XXXMS-AG where 'XXX' is the power output from 350 W to 410 W with the following electrical rating typical at 410 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	49.0 V
Short Circuit Current (Isc):	10.49 A
Operating Voltage (Vpmax):	41.2 V
Current at Operating Voltage (Ipmax):	9.96 A

Photovoltaic Modules with maximum system voltage of 1000 V dc or 1500 V dc, Class A, Model Series CS3U-XXXP-AG where 'XXX' is the power output from 310 W to 405 W with the following electrical rating typical at 405 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	49.2 V
Short Circuit Current (Isc):	10.37 A
Operating Voltage (Vpmax):	41.4 V
Current at Operating Voltage (Ipmax):	9.79 A



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Photovoltaic Modules with maximum system voltage of 1000 V dc or 1500 V dc, Class A, Model Series CS3K-XXXMS-AG where 'XXX' is the power output from 250 W to 330 W with the following electrical rating typical at 330 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	40.5 V
Short Circuit Current (Isc):	10.30 A
Operating Voltage (Vpmax):	33.7 V
Current at Operating Voltage (Ipmax):	9.80 A

Photovoltaic Modules with maximum system voltage of 1000 V dc or 1500 V dc, Class A, Model Series CS3K-XXXP-AG where 'XXX' is the power output from 270 W to 335 W with the following electrical rating typical at 335 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	41.3 V
Short Circuit Current (Isc):	10.37 A
Operating Voltage (Vpmax):	34.1 V
Current at Operating Voltage (Ipmax):	9.83 A

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS3U-XXXMB-FG where 'XXX' is the power output from 350 W to 410 W with the following electrical rating typical at 410 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	49.0 V
Short Circuit Current (Isc):	10.49 A
Operating Voltage (Vpmax):	41.2 V
Current at Operating Voltage (Ipmax):	9.96 A

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS3U-XXXPB-FG where 'XXX' is the power output from 310 W to 420 W with the following electrical rating typical at 420 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	49.9 V
Short Circuit Current (Isc):	10.66 A
Operating Voltage (Vpmax):	41.6 V
Current at Operating Voltage (Ipmax):	10.10 A

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS3K-XXXMB-FG where 'XXX' is the power output from 250 W to 330 W with the following electrical rating typical at 330 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	40.5 V
Short Circuit Current (Isc):	10.30 A
Operating Voltage (Vpmax):	33.7 V
Current at Operating Voltage (Ipmax):	9.80 A



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Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS3K-XXXPB-FG where 'XXX' is the power output from 270 W to 350 W with the following electrical rating typical at 350 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	41.9 V
Short Circuit Current (Isc):	10.6 A
Operating Voltage (Vpmax):	34.7 V
Current at Operating Voltage (Ipmax):	10.09 A

Photovoltaic Modules with maximum system voltage of 1000 V dc or 1500 V dc, Class A, Model Series CS3U-XXXMB-AG where 'XXX' is the power output from 350 W to 410 W with the following electrical rating typical at 410 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	49.0 V
Short Circuit Current (Isc):	10.49 A
Operating Voltage (Vpmax):	41.2 V
Current at Operating Voltage (Ipmax):	9.96 A

Photovoltaic Modules with maximum system voltage of 1000 V dc or 1500 V dc, Class A, Model Series CS3U-XXXPB-AG where 'XXX' is the power output from 310 W to 420 W with the following electrical rating typical at 420 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	49.8 V
Short Circuit Current (Isc):	10.55 A
Operating Voltage (Vpmax):	42.0 V
Current at Operating Voltage (Ipmax):	10.00 A

Photovoltaic Modules with maximum system voltage of 1000 V dc or 1500 V dc, Class A, Model Series CS3K-XXXMB-AG where 'XXX' is the power output from 250 W to 330 W with the following electrical rating typical at 330 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	40.5 V
Short Circuit Current (Isc):	10.30 A
Operating Voltage (Vpmax):	33.7 V
Current at Operating Voltage (Ipmax):	9.80 A

Photovoltaic Modules with maximum system voltage of 1000 V dc or 1500 V dc, Class A, Model Series CS3K-XXXPB-AG where 'XXX' is the power output from 270 W to 350 W with the following electrical rating typical at 350 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	41.9 V
Short Circuit Current (Isc):	10.6 A
Operating Voltage (Vpmax):	34.7 V
Current at Operating Voltage (Ipmax):	10.09 A



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Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS6K-XXXMB-FG where 'XXX' is the power output from 245 W to 320W with the following electrical rating typical at 320 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	40.5 V
Short Circuit Current (Isc):	10.15 A
Operating Voltage (Vpmax):	33.3 V
Current at Operating Voltage (Ipmax):	9.61 A

Photovoltaic Modules with maximum system voltage of 600 V dc or 1000 V dc, Class A, Model Series CS6K-XXXPB-FG where 'XXX' is the power output from 245 W to 300 W with the following electrical rating typical at 300 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	38.8 V
Short Circuit Current (Isc):	9.92 A
Operating Voltage (Vpmax):	32.0 V
Current at Operating Voltage (Ipmax):	9.38 A

Photovoltaic Modules with maximum system voltage of 100 V dc or 1500 V dc, Class A, Model Series CS3W-XXXPB-AG where 'XXX' is the power output from 380 W to 445 W with the following electrical rating typical at 445 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	48.8 V
Short Circuit Current (Isc):	11.45 A
Operating Voltage (Vpmax):	40.5 V
Current at Operating Voltage (Ipmax):	10.99 A

Photovoltaic Modules with maximum system voltage of 1000 V dc or 1500 V dc, Class A, Model Series CS3W-XXXMB-AG where 'XXX' is the power output from 415 W to 460 W with the following electrical rating typical at 460 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	49.1 V
Short Circuit Current (Isc):	11.77 A
Operating Voltage (Vpmax):	40.9 V
Current at Operating Voltage (Ipmax):	11.25 A

Photovoltaic Modules with maximum system voltage of 100 V dc or 1500 V dc, Class A, Model Series CS3L-XXXPB-AG where 'XXX' is the power output from 315 W to 365 W with the following electrical rating typical at 365 W at Standard Test Conditions (STC):

Open Circuit Voltage (Voc):	40.6 V
Short Circuit Current (Isc):	11.38 A
Operating Voltage (Vpmax):	33.6 V
Current at Operating Voltage (Ipmax):	10.87 A

Notes:



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1. Rated electrical characteristics are within +/-10% of measured values at Standard Test Conditions of 100 mW/cm² irradiance, AM 1.5 spectrum, and cell temperature of 25°C.
2. Fire resistance rating: Class C (Canada), Type 3 (US) for CS6X-XXXP-FG, CS6K-XXXP-FG, CS6X-XXXM-FG, CS6K-XXXM-FG, CS6K-XXXMS-FG, CS3U-XXXMB-FG, CS3U-XXXPB-FG, CS3K-XXXMB-FG, CS3K-XXXPB-FG, CS6K-XXXMB-FG, CS6K-XXXPB-FG, CS3U-XXXMS-FG, CS3U-XXXP-FG, CS3K-XXXMS-FG, CS3K-XXXP-FG model series. Class C (Canada), similar to Type 3 (US) for CS6K-XXXP-AG, CS6K-XXXM-AG, CS6K-XXXMS-AG, CS3U-XXXMB-AG, CS3U-XXXPB-AG, CS3K-XXXMB-AG, CS3K-XXXPB-AG, CS3W-XXXPB-AG, CS3W-XXXMB-AG, CS3L-XXXPB-AG, CS3U-XXXMS-AG, CS3U-XXXP-AG, CS3K-XXXMS-AG, CS3K-XXXP-AG model series, the constructions and fire performance of these models are similar to Type 3, except that assembly with metallic frames. Class C (Canada), similar to Type 3 (US) for CS6K-XXXP-PG model series, the constructions and fire performance of these models are similar to Type 3, except that assembly with polymeric frames.
3. The Rated electrical power performance of the bifacial modules, CS3U-XXXMB-FG, CS3U-XXXPB-FG, CS3K-XXXMB-FG, CS3K-XXXPB-FG, CS3U-XXXMB-AG, CS3U-XXXPB-AG, CS3K-XXXMB-AG, CS3K-XXXPB-AG, CS6K-XXXMB-FG, CS6K-XXXPB-FG, CS3W-XXXPB-AG, CS3W-XXXMB-AG, CS3L-XXXPB-AG model series, is only generated by front side of the PV module, more power may be generated if considering back side of the PV module.

APPLICABLE REQUIREMENTS

ULC/ORD- C1703-01 - Flat-Plate Photovoltaic Modules and Panels
UL 1703-3rd Edition - Flat-Plate Photovoltaic Modules and Panels



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80040043	2020-04-21	Update report to add new encapsulation T2019P manufactured by Changshu Tegu New Material Technology Co. Ltd., add new frame adhesive XS1110-A manufactured by Shenzhen SISUN Silicone technology Co. Ltd. and change the fire resistance rating.
80039686	2020-04-14	Update report to add new cell M1569BPERCBP manufactured by Tongwei Solar (Chengdu) Co., Ltd.
80038818	2020-04-07	Update report to add new encapsulation combination of EP304 with F406PS manufactured by Hangzhou First PV Material Co.,Ltd., add alternative glass manufacturers for substrate, add frame adhesive HT906Z manufactured by 'Huitian New Chemical Material Co Ltd.' and add alternative overall dimension for CS3K-MB-AG, CS3K-PB-AG module series.
80038819	2020-04-07	Update report to add new encapsulation EP304 with EP304 manufactured by Hangzhou First PV Material Co., Ltd.
80029599	2020-03-09	Update report to add alternative F26 short frame, rename superstrate manufacturer Changzhou Hongxie Safety Glass Co. Ltd. to SLT special glass(Jiangsu) Co. Ltd. based on the declaration letter, add alternative manufacturer Xinyi Products (Anhui) Holdings Ltd. for glass substrate/superstrate and add alternative 0.8 mm thickness for T22 POE.
80027043	2020-03-02	Update report to add a 166mm*83mm new cell PM69BF29B2 manufactured by Jiangsu Runergy Yueda PV Technology Co., Ltd. and add alternative thickness for Light Interconnector reflecting film GS-1200-090-02 and SR-ZX12M.
80025261	2020-02-19	Update report to add new bifacial cell 8M6E916A-X8 manufactured by Tianjin Aiko Solar Energy Technology Co., Ltd. and add three certified alternative interconnector reflecting film based on CSA test report 2284121 which is for signal glass PV module and add alternative connector PV-KST4/PV-KBT4 based on UL6703 certificate.
80016358	2020-01-02	Update report to add new POE TR02 manufactured by Mitsui Chemicals Tohcello, Inc. and add new junction box B05Y manufactured by ChangShu Tlian Co., Ltd. and the width of string interconnector was increased from 6 mm to 8 mm.



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80022609	2019-12-02	Update report to add a 166mm*83mm new cell CC7M9-BPS manufactured by CSI cell Inc. and add the related new module CS3W-MB-AG model series.
70214105	2019-08-21	Update report to add new POE TF4 combined with EVA F406PS manufactured by Hangzhou First PV Material Co., Ltd. and renamed for the superstrate manufacturer Changzhou Hongxie Safety Glass Co. Ltd.
80015051	2019-08-19	Update report to extend the power range of the module type CS3W-PB-AG, CS3U-PB-FG, CS3U-PB-AG, CS3K-PB-FG, CS3K-PB-AG.
80010391	2019-08-16	Update report to add new POE P507 and new EVA S201MT1 manufactured by Shanghai HIUV New Materials Co., Ltd.
80010786	2019-08-05	Update report to add new bifacial cell manufactured by Hengdian group DMEGC magnetics co.,ltd, type DMBD5B157-210.
80012120	2019-07-31	Update report to add new bifacial cell manufactured by Shunfeng, type 156S2-PERC-5BB.
80009712	2019-07-22	Update report to add new bifacial cell manufactured by TW solar, type M1565BPERCBP and cancelled the CS6U-PB-AG, CS6U-MB-AG, CS6U-PB-FG, CS6U-MB-FG module series.
80005567	2019-07-16	Update report to extend the power rating of models 3U-P-AG, 3U-P-FG, 3U-PB-AG, 3U-PB-FG, 3K-P-AG, 3K-P-FG, 3K-PB-AG, 3K-PB-FG series.
80003460	2019-05-21	Update report to add new 166mm*83mm big bifacial cell CC7P9-BPS from CSI cell Co. Ltd. add alternative glass and cell connector manufacturer, and introduce related new models CS3W-PB-AG and CS3L-PB-AG series.
70208374	2019-01-20	Update report to add new POE, type TP01 from Changshu Tegu New Material Technology Co.Ltd.
70211208	2019-01-04	Update report 2655017 to add new frame, type F26 (long side) & F27 (short side).
70209032	2018-12-28	Update report 2655017 to add two new bifacial cells CC6P9-BPS, CC6M9-BPS manufactured by CSI Cells Co Ltd.
70200037	2018-11-19	Update report to add new junction box B05S and related bypass diodes, potting compounds, junction box adhesive.
70187048	2018-07-09	Update report to add two new bifacial cells CC6P5-BPS, CC6M5-BPS and related new bifacial module types, CS6U-XXXMB-FG, CS6K-XXXMB-FG, CS6U-XXXPB-FG, CS6K-XXXPB-FG, slightly change the overall dimension of CS3U-PB-AG and CS3U-MB-AG series.
70172360	2018-04-24	Update report to add two new bifacial cells, two new junction box, two alternative connectors, four alternative bypass diodes, one alternative substrate manufacturer, two combinations of J-box and J-box adhesive and related new bifacial module types, CS3U-XXXPB-FG, CS3K-XXXPB-FG, CS3U-XXXMB-FG, CS3K-XXXMB-FG, CS3U-XXXPB-AG, CS3K-



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XXXPB-AG, CS3U-XXXMB-AG, CS3K-XXXMB-AG. The power range of CS3K-XXXP-FG, CS3K-XXXP-AG was also expanded.		
70171875	2018-02-11	Update Report 2655017 to add new models CS3U-XXXMS-AG, CS3U-XXXP-AG, CS3K-XXXMS-AG and CS3K-XXXP-AG and related F14 frame.
70165399	2017-12-13	Update Report 2655017 to add new models CS3U-XXXMS-FG, CS3U-XXXP-FG, CS3K-XXXMS-FG and CS3K-XXXP-FG with half-cells.
70165398	2017-12-07	Update Report 2655017 to add new mounting methods for F14 & F15 frame.
70144480	2017-10-30	Update report 2655017 to add a new encapsulation material POE "T22" manufactured by Cybrid.
70136613	2017-08-22	Update Report 2655017 to add junction box CF1505-01mx with connectors T4-PPE-1 & T4-PC-1, adhesive 1527/HT8258/CV709, and to cover alternative cells from Report 2284121.
70122823	2017-05-19	Update report 2655017 to add double glass module with frame, model series CS6U-XXXP-AG, CS6U-XXXM-AG, CS6K-XXXP-AG, CS6K-XXXM-AG, CS6K-XXXMS-AG.
70133941	2017-05-18	Update report 2655017 to add junction box B12S by Changshu Tlian.
70133943	2017-05-17	Update report 2655017 to add new encapsulant TF4 by Hangzhou First.
70083941	2016-10-24	1. Add two new model series: CS6X-M, CS6K-M 2. Expend the power rating for model series: CS6X-P, CS6K-P 3. Alternate new mechanical installation method 4. Increase the model size for CS6K-P series
70046455	2015-09-11	Update Report 2655017 for the CS6X-XXXP-FG Series with alternate EVA manufactured by First PV, F406P & F806W, for extension approval of frameless type CS6X-XXXP-FG with bigger size based on previous approved type CS6K-XXXP-FG with EVA pair 9110T/9130W of supplier 3M, and extension approval of fire test class A based on approved class C, CSA Report #70024060 is referenced.
70036467	2015-06-18	Update Descriptive Report 2655017.
70023134	2015-04-28	Update Report 2655017 to add alternative frame adhesive.
70020421	2015-01-14	Update Report 2655017 to include model series CS6K-XXXP-PG and Fire Performance Type.
2655017	2013-10-01	Photovoltaic Modules, Model Series CS6K-XXXP-LG. (C/US).