



# Certificate of Compliance

**Certificate:** 80039108

**Master Contract:** 249143

**Project:** 80056231

**Date Issued:** 2020-12-04

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

CLASS - C531110 - POWER SUPPLIES-Photovoltaic Modules and Panels

Photovoltaic modules with maximum DC system voltage of 1500 V or 1000V, Safety Class II.

### Model Series:

CS3Y-xxxMS (xxx = 470 to 500 W),  
CS3Y-xxxP (xxx = 435 to 485 W),  
CS3N-xxxMS (xxx = 385 to 425 W),  
CS3W-xxxP (xxx = 385 to 450 W),  
CS3L-xxxP (xxx = 340 to 375 W),  
CS3W-xxxMS (xxx = 415 to 470 W),  
CS3L-xxxMS (xxx = 345 to 390 W),  
CS3U-xxxMS (xxx = 350 to 410 W),  
CS3K-xxxMS (xxx = 295 to 345 W),  
CS3U-xxxP (xxx = 345 to 405 W),  
CS3K-xxxP (xxx = 290 to 340 W),  
CS1H-xxxMS (xxx = 310 to 345 W),  
CS6U-xxxP (xxx = 310 to 340 W),



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CS6XH-xxxP (xxx = 295 to 345 W),  
 CS6XH-xxxM (xxx = 345 to 375 W),  
 CS6PH-xxxP (xxx = 240 to 280 W),  
 CS6PH-xxxM (xxx = 280 to 310 W),  
 CS6AH-xxxP (xxx = 185 to 220 W),  
 CS6AH-xxxM (xxx = 215 to 235 W),  
 CS5PH-xxxP (xxx = 235 to 260 W),  
 CS5PH-xxxM (xxx = 250 to 275 W),  
 CS1Y-xxxMS (xxx = 380 to 415 W),  
 CS1W-xxxMS (xxx = 350 to 385 W).

Model Type	Maximum DC System Voltage (V)	Open Circuit Voltage (V)	Maximum power voltage (V)	Short Circuit Current (A)	Maximum power current (A)	Maximum Power (Watts)	Maximum overcurrent protection rating (A)
CS3W-385P	1500	46.6	38.1	10.66	10.11	385	20
CS3W-390P	1500	46.8	38.3	10.74	10.19	390	20
CS3W-395P	1500	47.0	38.5	10.82	10.26	395	20
CS3W-400P	1500	47.2	38.7	10.90	10.34	400	20
CS3W-405P	1500	47.4	38.9	10.98	10.42	405	20
CS3W-410P	1500	47.6	39.1	11.06	10.49	410	20
CS3W-415P	1500	47.8	39.3	11.14	10.56	415	20
CS3W-420P	1500	48.0	39.5	11.26	10.64	420	20
CS3W-425P	1500	48.2	39.7	11.29	10.71	425	20
CS3W-430P	1500	48.4	39.9	11.32	10.78	430	20
CS3W-435P	1500	48.6	40.1	11.35	10.85	435	20
CS3W-440P	1500	48.7	40.3	11.40	10.92	440	20
CS3W-445P	1500	48.8	40.5	11.45	10.99	445	20
CS3W-450P	1500	49.0	40.7	11.53	11.06	450	20
CS3L-340P	1500	39.6	32.6	10.98	10.43	340	20
CS3L-345P	1500	39.8	32.8	11.06	10.52	345	20
CS3L-350P	1500	40.2	33.0	11.24	10.61	350	20
CS3L-355P	1500	40.4	33.2	11.31	10.70	355	20
CS3L-360P	1500	40.6	33.4	11.37	10.78	360	20
CS3L-365P	1500	40.8	33.6	11.44	10.87	365	20
CS3L-370P	1500	41.0	33.8	11.51	10.95	370	20
CS3L-375P	1500	41.2	34.0	11.59	11.03	375	20
CS1H-310MS	1000	43.8	35.4	9.52	8.76	310	16
CS1H-315MS	1000	43.9	35.8	9.56	8.80	315	16
CS1H-320MS	1000	44.0	36.2	9.60	8.85	320	16
CS1H-325MS	1000	44.1	36.6	9.64	8.88	325	16
CS1H-330MS	1000	44.2	37.0	9.68	8.92	330	16
CS1H-335MS	1000	44.3	37.4	9.72	8.96	335	16
CS1H-340MS	1000	44.5	37.8	9.76	9.00	340	16



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CS1H-345MS	1000	44.6	38.2	9.80	9.04	345	16
CS3W-415MS	1500	47.7	39.7	11.22	10.46	415	20
CS3W-420MS	1500	47.9	39.9	11.27	10.53	420	20
CS3W-425MS	1500	48.1	40.1	11.32	10.6	425	20
CS3W-430MS	1500	48.3	40.3	11.37	10.68	430	20
CS3W-435MS	1500	48.5	40.5	11.42	10.75	435	20
CS3W-440MS	1500	48.7	40.7	11.48	10.82	440	20
CS3W-445MS	1500	48.9	40.9	11.54	10.89	445	20
CS3W-450MS	1500	49.1	41.1	11.6	10.96	450	20
CS3W-455MS	1500	49.3	41.3	11.66	11.02	455	20
CS3W-460MS	1500	49.5	41.5	11.72	11.09	460	20
CS3W-465MS	1500	49.7	41.7	11.78	11.16	465	20
CS3W-470MS	1500	49.9	41.9	11.84	11.22	470	20
CS3L-345MS	1500	39.8	33.1	11.23	10.43	345	20
CS3L-350MS	1500	40	33.3	11.28	10.52	350	20
CS3L-355MS	1500	40.2	33.5	11.33	10.61	355	20
CS3L-360MS	1500	40.4	33.7	11.4	10.69	360	20
CS3L-365MS	1500	40.6	33.9	11.47	10.78	365	20
CS3L-370MS	1500	40.8	34.1	11.54	10.86	370	20
CS3L-375MS	1500	41	34.3	11.61	10.94	375	20
CS3L-380MS	1500	41.2	34.5	11.68	11.02	380	20
CS3L-385MS	1500	41.4	34.7	11.75	11.1	385	20
CS3L-390MS	1500	41.6	34.9	11.82	11.18	390	20
CS3U-350MS	1500	46.6	38.8	9.53	9.03	350	30
CS3U-355MS	1500	46.8	39	9.61	9.11	355	30
CS3U-360MS	1500	47	39.2	9.69	9.19	360	30
CS3U-365MS	1500	47.2	39.4	9.77	9.27	365	30
CS3U-370MS	1500	47.4	39.6	9.85	9.35	370	30
CS3U-375MS	1500	47.6	39.8	9.93	9.43	375	30
CS3U-380MS	1500	47.8	40	10.01	9.5	380	30
CS3U-385MS	1500	48	40.2	10.09	9.58	385	30
CS3U-390MS	1500	48.2	40.4	10.17	9.66	390	30
CS3U-395MS	1500	48.4	40.6	10.25	9.73	395	30
CS3U-400MS	1500	48.6	40.8	10.33	9.81	400	30
CS3U-405MS	1500	49.3	41	10.44	9.88	405	30
CS3U-410MS	1500	49.5	41.2	10.52	9.96	410	30
CS3K-295MS	1500	39.1	32.3	9.73	9.14	295	30
CS3K-300MS	1500	39.3	32.5	9.82	9.24	300	30
CS3K-305MS	1500	39.5	32.7	9.9	9.33	305	30



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CS3K-310MS	1500	39.7	32.9	9.98	9.43	310	30
CS3K-315MS	1500	39.9	33.1	10.06	9.52	315	30
CS3K-320MS	1500	40.1	33.3	10.14	9.61	320	30
CS3K-325MS	1500	40.3	33.5	10.22	9.71	325	30
CS3K-330MS	1500	40.5	33.7	10.3	9.8	330	30
CS3K-335MS	1500	41.2	33.9	10.39	9.89	335	30
CS3K-340MS	1500	41.4	34.1	10.49	9.98	340	30
CS3K-345MS	1500	41.6	34.3	10.58	10.06	345	30
CS3U-345P	1500	46.1	38.6	9.44	8.94	345	30
CS3U-350P	1500	46.6	39.2	9.51	8.94	350	30
CS3U-355P	1500	46.8	39.4	9.59	9.02	355	30
CS3U-360P	1500	47.0	39.6	9.67	9.10	360	30
CS3U-365P	1500	47.2	39.8	9.75	9.18	365	30
CS3U-370P	1500	47.4	40.0	9.83	9.26	370	30
CS3U-375P	1500	47.6	40.2	9.91	9.34	375	30
CS3U-380P	1500	47.8	40.4	9.99	9.42	380	30
CS3U-385P	1500	48.0	40.6	10.07	9.50	385	30
CS3U-390P	1500	48.6	40.8	10.17	9.56	390	30
CS3U-395P	1500	48.8	41.0	10.24	9.64	395	30
CS3U-400P	1500	49.0	41.2	10.30	9.71	400	30
CS3U-405P	1500	49.2	41.4	10.37	9.79	405	30
CS3K-290P	1500	38.9	32.3	9.49	8.98	290	30
CS3K-295P	1500	39.1	32.5	9.57	9.08	295	30
CS3K-300P	1500	39.3	32.7	9.65	9.18	300	30
CS3K-305P	1500	39.5	32.9	9.73	9.28	305	30
CS3K-310P	1500	39.7	33.1	9.81	9.37	310	30
CS3K-315P	1500	39.9	33.3	9.89	9.46	315	30
CS3K-320P	1500	40.1	33.5	9.97	9.56	320	30
CS3K-325P	1500	40.9	33.7	10.21	9.65	325	30
CS3K-330P	1500	41.1	33.9	10.29	9.74	330	30
CS3Y-470MS	1500	52.5	43.8	11.47	10.74	470	20
CS3Y-475MS	1500	52.7	44.0	11.52	10.81	475	20
CS3Y-480MS	1500	52.9	44.2	11.57	10.87	480	20
CS3Y-485MS	1500	53.1	44.4	11.62	10.94	485	20
CS3Y-490MS	1500	53.3	44.6	11.67	11.00	490	20
CS3Y-495MS	1500	53.5	44.8	11.72	11.06	495	20
CS3Y-500MS	1500	53.7	45.0	11.77	11.12	500	20
CS3Y-435P	1500	51.0	41.8	11.13	10.41	435	20
CS3Y-440P	1500	51.2	42.0	11.18	10.48	440	20



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CS3Y-445P	1500	51.4	42.2	11.23	10.55	445	20
CS3Y-450P	1500	51.6	42.4	11.28	10.62	450	20
CS3Y-455P	1500	51.8	42.6	11.33	10.69	455	20
CS3Y-460P	1500	52.0	42.8	11.38	10.75	460	20
CS3Y-465P	1500	52.2	43.0	11.43	10.82	465	20
CS3Y-470P	1500	52.4	43.2	11.48	10.88	470	20
CS3Y-475P	1500	52.6	43.4	11.53	10.95	475	20
CS3Y-480P	1500	52.8	43.6	11.58	11.01	480	20
CS3Y-485P	1500	53.0	43.8	11.63	11.08	485	20
CS3N-385MS	1500	43.9	36.6	11.32	10.52	385	20
CS3N-390MS	1500	44.1	36.8	11.38	10.60	390	20
CS3N-395MS	1500	44.3	37.0	11.44	10.68	395	20
CS3N-400MS	1500	44.5	37.2	11.50	10.76	400	20
CS3N-405MS	1500	44.7	37.4	11.56	10.83	405	20
CS3N-410MS	1500	44.9	37.6	11.62	10.92	410	20
CS3N-415MS	1500	45.1	37.8	11.68	10.98	415	20
CS3N-420MS	1500	45.3	38.0	11.74	11.06	420	20
CS3N-425MS	1500	45.5	38.2	11.80	11.13	425	20
CS6U-310P	1500	44.9	36.4	9.08	8.52	310	15
CS6U-315P	1500	45.1	36.6	9.18	8.61	315	15
CS6U-320P	1500	45.3	36.8	9.26	8.69	320	15
CS6U-325P	1500	45.5	37.0	9.34	8.78	325	15
CS6U-330P	1500	45.6	37.2	9.45	8.88	330	15
CS6U-335P	1500	45.8	37.4	9.54	8.96	335	15
CS6U-340P	1500	45.9	37.6	9.62	9.05	340	15
CS6XH-295P	1500	41.4	34.4	9.52	8.58	295	20
CS6XH-300P	1500	41.6	34.6	9.56	8.68	300	20
CS6XH-305P	1500	41.8	34.8	9.60	8.77	305	20
CS6XH-310P	1500	42.0	35.0	9.64	8.86	310	20
CS6XH-315P	1500	42.2	35.2	9.68	8.95	315	20
CS6XH-320P	1500	42.4	35.4	9.72	9.04	320	20
CS6XH-325P	1500	42.6	35.6	9.76	9.13	325	20
CS6XH-330P	1500	42.8	35.8	9.83	9.22	330	20
CS6XH-335P	1500	43.0	36.0	9.90	9.31	335	20
CS6XH-340P	1500	43.2	36.2	9.97	9.40	340	20
CS6XH-345P	1500	43.4	36.4	10.04	9.49	345	20
CS6XH-345M	1500	44.4	36.5	9.94	9.46	345	20
CS6XH-350M	1500	44.6	36.8	10.00	9.52	350	20
CS6XH-355M	1500	44.8	37.1	10.06	9.57	355	20



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CS6XH-360M	1500	45.0	37.4	10.12	9.63	360	20
CS6XH-365M	1500	45.2	37.7	10.18	9.69	365	20
CS6XH-370M	1500	45.4	38.0	10.24	9.74	370	20
CS6XH-375M	1500	45.6	38.3	10.30	9.80	375	20
CS6PH-240P	1500	33.8	28.2	9.41	8.52	240	20
CS6PH-245P	1500	34.0	28.4	9.48	8.63	245	20
CS6PH-250P	1500	34.2	28.6	9.55	8.75	250	20
CS6PH-255P	1500	34.4	28.8	9.62	8.86	255	20
CS6PH-260P	1500	34.6	29.0	9.69	8.97	260	20
CS6PH-265P	1500	34.8	29.2	9.76	9.08	265	20
CS6PH-270P	1500	35.0	29.4	9.83	9.19	270	20
CS6PH-275P	1500	35.2	29.6	9.90	9.30	275	20
CS6PH-280P	1500	35.4	29.8	9.97	9.40	280	20
CS6PH-280M	1500	36.5	30.0	9.96	9.34	280	20
CS6PH-285M	1500	36.7	30.3	10.02	9.41	285	20
CS6PH-290M	1500	36.9	30.6	10.08	9.48	290	20
CS6PH-295M	1500	37.1	30.9	10.14	9.55	295	20
CS6PH-300M	1500	37.3	31.2	10.19	9.62	300	20
CS6PH-305M	1500	37.5	31.5	10.25	9.69	305	20
CS6PH-310M	1500	37.7	31.8	10.31	9.75	310	20
CS6AH-185P	1500	25.8	21.8	9.48	8.49	185	20
CS6AH-190P	1500	26.1	22.0	9.55	8.64	190	20
CS6AH-195P	1500	26.4	22.2	9.62	8.79	195	20
CS6AH-200P	1500	26.7	22.4	9.69	8.93	200	20
CS6AH-205P	1500	27.0	22.6	9.76	9.08	205	20
CS6AH-210P	1500	27.3	22.8	9.83	9.22	210	20
CS6AH-215P	1500	27.6	23.0	9.90	9.36	215	20
CS6AH-220P	1500	27.9	23.2	9.97	9.49	220	20
CS6AH-215M	1500	27.8	22.9	9.97	9.39	215	20
CS6AH-220M	1500	28.1	23.3	10.03	9.45	220	20
CS6AH-225M	1500	28.4	23.7	10.09	9.50	225	20
CS6AH-230M	1500	28.7	24.1	10.15	9.55	230	20
CS6AH-235M	1500	29.0	24.5	10.21	9.60	235	20
CS5PH-235P	1500	62.6	50.8	4.93	4.63	235	15
CS5PH-240P	1500	62.8	51.0	5.00	4.71	240	15
CS5PH-245P	1500	63.0	51.4	5.07	4.79	245	15
CS5PH-250P	1500	63.2	51.4	5.14	4.87	250	15
CS5PH-255P	1500	63.4	51.6	5.21	4.95	255	15
CS5PH-260P	1500	63.6	51.8	5.28	5.02	260	15



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CS5PH-250M	1500	63.4	53.4	5.00	4.69	250	15
CS5PH-255M	1500	63.6	53.6	5.06	4.76	255	15
CS5PH-260M	1500	63.8	53.8	5.13	4.84	260	15
CS5PH-265M	1500	64.0	54.0	5.20	4.91	265	15
CS5PH-270M	1500	64.2	54.2	5.27	4.99	270	15
CS5PH-275M	1500	64.4	54.4	5.34	5.06	275	15
CS1Y-380MS	1500	51.5	42.7	9.74	8.89	380	16
CS1Y-385MS	1500	51.7	42.9	9.78	8.97	385	16
CS1Y-390MS	1500	51.9	43.1	9.82	9.05	390	16
CS1Y-395MS	1500	52.1	43.3	9.86	9.13	395	16
CS1Y-400MS	1500	52.3	43.5	9.90	9.20	400	16
CS1Y-405MS	1500	52.5	43.7	9.94	9.27	405	16
CS1Y-410MS	1500	52.7	43.8	9.98	9.37	410	16
CS1Y-415MS	1500	52.8	44.0	10.02	9.44	415	16
CS1W-350MS	1500	46.5	39.3	9.74	8.91	350	16
CS1W-355MS	1500	47.2	39.5	9.78	9.00	355	16
CS1W-360MS	1500	47.9	39.7	9.82	9.07	360	16
CS1W-365MS	1500	48.1	39.9	9.86	9.15	365	16
CS1W-370MS	1500	48.3	40.1	9.90	9.23	370	16
CS1W-375MS	1500	48.5	40.3	9.94	9.31	375	16
CS1W-380MS	1500	48.7	40.5	9.98	9.39	380	16
CS1W-385MS	1500	48.9	40.7	10.03	9.46	385	16

Note:

- All electrical data are shown as relative to standard test conditions (STC) (1000 W/m<sup>2</sup>, (25 ± 2) °C, AM 1.5 according to IEC 60904-3).
- The manufacturer declared tolerance of Open-circuit voltage, Short-circuit current is ±5%, the manufacturer declared tolerance of Maximum power is ±3%.
- The operating ambient temperature of these devices may exceed 40 °C at full load for all wire sizes if it is determined suitable in the field use application.

### **APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 61730-1:19	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction
CAN/CSA-C22.2 No. 61730-2:19	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing
UL 61730-1:2017	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction



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UL 61730-2:2017

Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements  
for Testing





## 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
80056231	2020-12-04	Update report 80039108 to add CS1Y-xxxMS, CS1W-xxxMS new model series, add new 3.0mm and 3.2mm glass from AVIC SANXIN SOL-GLASS CO., LTD., add CC6M6-HiDM type new solar cell, add new manufacturer of string interconnector, add new FF-3665 type cell fixing tape, add new output wiring system and F21, F23 type new frame for CS1Y-xxxMS, CS1W-xxxMS new model series, add XS1110-A type new adhesive for frame.
80062127	2020-11-30	Update report 80039108 to add F30A/F30B type new frame, add alternative overall dimension for CS3N-xxxMS model series.
80052767	2020-11-25	Update report 80039108 to add ICP 8259, Reland 9152 type new ECA, add HT906Z, HT8258 type new frame adhesive.
80052770	2020-11-19	Update report 80039108 to add Cynagard 205A(R), KFB-30, KFB-30(plus) type new backsheets, add T2014/T2053W type new EVA, add new superstrate glass from China National Building Materials (Hefei) New Energy Resources Co., Ltd. and IRICO Group Electronics Co., Ltd., add new combinations of approved Encapsulation Material with approved backsheet, T2014/T2053W with BEC303, T2014/F806W and T2053W with KFB-30 and KFB-30(plus), T2014/T2053W and F806W with Cynagard 205A and Cynagard 205A(R).
80050549	2020-11-13	Update report 80039108 to add CS6XH-xxxP, CS6XH-xxxM, CS6PH-xxxP, CS6PH-xxxM, CS6AH-xxxP, CS6AH-xxxM, CS5PH-xxxP, CS5PH-xxxM new PV module model series, add CC6P5-BPS, CC6M5-BPS type new 1/2 half cut cells, new specification of string interconnector, new CF1208-02 & CF1208-02 junction box combination for CS5PH-xxxM model series, new F1, ZEP frames.
80052769	2020-11-04	Update report 80039108 to add new CS6U-xxxP type new PV module, related CC6P5-BPS type new cell, new specification for cell and string interconnector, alternative potting for junction box, alternative adhesive for junction box, add B20S type new junction box and related connector, cable, bypass diode.
80057040	2020-10-28	Update report 80039108 to add CS3Y-xxxMS, CS3N-xxxMS, CS3Y-xxxP new model series, add 0.70 mm/ 0.66 mm alternative thickness for approved F406PS/ F806W EVA, add F50A/F50B type new frame and H-7 type new



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**Project:** 80056231

**Master Contract:** 249143  
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		cross-bar, add new manufacturers of frame, cell interconnector, string interconnector.
80042988	2020-08-27	Update report 80039108 to add new bifacial cell DMBD9B166 manufactured by DMEGC.
80039108	2020-07-29	CSA C/US initial Certification for Photovoltaic (PV) Modules, Module Model Series CS3W-xxxP (xxx = 385 to 450 W), CS3L-xxxP (xxx = 320 to 375 W), CS1H-xxxMS (xxx = 310 to 345 W).
80050136	2020-08-11	Update report 80039108 to add CS3W-xxxMS, CS3L-xxxMS, CS3U-xxxP, CS3K-xxxP, CS3U-xxxMS, CS3K-xxxMS new model series, add CC7M9-BPS, CC6P9-BPS, CC6M9-BPS new solar cells, add F16 type new frame and H-4 cross-bar, add new connectors from STAUBLI ELECTRICAL CONNECTORS AG.



# Certificate of Compliance

**Certificate:** 80016357

**Master Contract:** 249143

**Project:** 80061549

**Date Issued:** 2020-12-10

**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 DC system voltage of 1500 V, Safety Class II.

Model Series:

CS3U-xxxPB-AG (xxx = 350 to 395 W),  
CS3W-xxxMB-AG (xxx = 415 to 450 W),  
CS3U-xxxMB-AG (xxx = 350 to 410 W),  
CS3K-xxxMB-AG (xxx = 280 to 330 W),  
CS3W-xxxPB-AG (xxx = 390 to 460 W),  
CS3K-xxxPB-AG (xxx = 265 to 350 W),  
CS3Y-xxxMB-AG (xxx = 465 to 490 W),  
CS3Y-xxxPB-AG (xxx = 430 to 480 W).



**Certificate:** 80016357

**Master Contract:** 249143

**Project:** 80061549

**Date Issued:** 2020-12-10

Model Type	Maximum DC System Voltage (V)	Open Circuit Voltage (V)	Maximum power voltage (V)	Short Circuit Current (A)	Maximum power current (A)	Maximum Power (Watts)	Maximum overcurrent protection rating (A)
CS3U-350PB-AG	1500	46.60	39.2	9.51	8.94	350	25
CS3U-355PB-AG	1500	46.80	39.4	9.59	9.02	355	25
CS3U-360PB-AG	1500	47.00	39.6	9.67	9.10	360	25
CS3U-365PB-AG	1500	47.20	39.8	9.75	9.18	365	25
CS3U-370PB-AG	1500	47.40	40.0	9.83	9.26	370	25
CS3U-375PB-AG	1500	47.60	40.2	9.91	9.34	375	25
CS3U-380PB-AG	1500	47.80	40.4	9.99	9.42	380	25
CS3U-385PB-AG	1500	48.00	40.6	10.07	9.50	385	25
CS3U-390PB-AG	1500	48.60	40.8	10.17	9.56	390	25
CS3U-395PB-AG	1500	48.80	41.0	10.24	9.64	395	25
CS3W-415MB-AG	1500	47.7	39.7	11.22	10.46	415	25
CS3W-420MB-AG	1500	47.9	39.9	11.27	10.53	420	25
CS3W-425MB-AG	1500	48.1	40.1	11.32	10.6	425	25
CS3W-430MB-AG	1500	48.3	40.3	11.37	10.68	430	25
CS3W-435MB-AG	1500	48.5	40.5	11.42	10.75	435	25
CS3W-440MB-AG	1500	48.7	40.7	11.48	10.82	440	25
CS3W-445MB-AG	1500	48.9	40.9	11.54	10.89	445	25
CS3W-450MB-AG	1500	49.1	41.1	11.6	10.96	450	25
CS3U-350MB-AG	1500	46.6	38.8	9.53	9.03	350	25
CS3U-355MB-AG	1500	46.8	39.0	9.61	9.11	355	25
CS3U-360MB-AG	1500	47	39.2	9.69	9.19	360	25
CS3U-365MB-AG	1500	47.2	39.4	9.77	9.27	365	25
CS3U-370MB-AG	1500	47.4	39.6	9.85	9.35	370	25
CS3U-375MB-AG	1500	47.6	39.8	9.93	9.43	375	25
CS3U-380MB-AG	1500	47.8	40.0	10.01	9.50	380	25
CS3U-385MB-AG	1500	48	40.2	10.09	9.58	385	25
CS3U-390MB-AG	1500	48.2	40.4	10.17	9.66	390	25
CS3U-395MB-AG	1500	48.4	40.6	10.25	9.73	395	25
CS3U-400MB-AG	1500	48.6	40.8	10.33	9.81	400	25
CS3U-405MB-AG	1500	49.3	41.0	10.44	9.88	405	25
CS3U-410MB-AG	1500	49.5	41.2	10.52	9.96	410	25
CS3K-280MB-AG	1500	38.5	31.7	8.84	9.49	280	25
CS3K-285MB-AG	1500	38.7	31.9	8.94	9.57	285	25
CS3K-290MB-AG	1500	38.9	32.1	9.04	9.65	290	25
CS3K-295MB-AG	1500	39.1	32.3	9.14	9.73	295	25
CS3K-300MB-AG	1500	39.3	32.5	9.24	9.82	300	25
CS3K-305MB-AG	1500	39.5	32.7	9.33	9.90	305	25
CS3K-310MB-AG	1500	39.7	32.9	9.43	9.98	310	25
CS3K-315MB-AG	1500	39.9	33.1	9.52	10.06	315	25
CS3K-320MB-AG	1500	40.1	33.3	9.61	10.14	320	25



**Certificate:** 80016357

**Master Contract:** 249143

**Project:** 80061549

**Date Issued:** 2020-12-10

Model Type	Maximum DC System Voltage (V)	Open Circuit Voltage (V)	Maximum power voltage (V)	Short Circuit Current (A)	Maximum power current (A)	Maximum Power (Watts)	Maximum overcurrent protection rating (A)
CS3K-325MB-AG	1500	40.3	33.5	9.71	10.22	325	25
CS3K-330MB-AG	1500	40.5	33.7	9.80	10.33	330	25
CS3W-390PB-AG	1500	46.8	38.3	10.74	10.19	390	25
CS3W-395PB-AG	1500	47	38.5	10.82	10.26	395	25
CS3W-400PB-AG	1500	47.2	38.7	10.9	10.34	400	25
CS3W-405PB-AG	1500	47.4	38.9	10.98	10.42	405	25
CS3W-410PB-AG	1500	47.6	39.1	11.06	10.49	410	25
CS3W-415PB-AG	1500	47.8	39.3	11.14	10.56	415	25
CS3W-420PB-AG	1500	48	39.5	11.26	10.64	420	25
CS3W-425PB-AG	1500	48.2	39.7	11.29	10.71	425	25
CS3W-430PB-AG	1500	48.4	39.9	11.32	10.78	430	25
CS3W-435PB-AG	1500	48.6	40.1	11.35	10.85	435	25
CS3W-440PB-AG	1500	48.7	40.3	11.4	10.92	440	25
CS3W-445PB-AG	1500	48.8	40.5	11.45	10.99	445	25
CS3W-450PB-AG	1500	49	40.7	11.53	11.06	450	25
CS3W-455PB-AG	1500	49.2	40.9	11.61	11.13	455	25
CS3W-460PB-AG	1500	49.4	41.1	11.69	11.2	460	25
CS3K-265PB-AG	1500	37.30	30.6	9.22	8.66	265	25
CS3K-270PB-AG	1500	37.50	30.8	9.30	8.77	270	25
CS3K-275PB-AG	1500	37.70	31.0	9.38	8.88	275	25
CS3K-280PB-AG	1500	37.90	31.2	9.47	8.98	280	25
CS3K-285PB-AG	1500	38.10	31.4	9.56	9.08	285	25
CS3K-290PB-AG	1500	38.90	32.3	9.49	8.98	290	25
CS3K-295PB-AG	1500	39.10	32.5	9.57	9.08	295	25
CS3K-300PB-AG	1500	39.30	32.7	9.65	9.18	300	25
CS3K-305PB-AG	1500	39.50	32.9	9.73	9.28	305	25
CS3K-310PB-AG	1500	39.70	33.1	9.81	9.37	310	25
CS3K-315PB-AG	1500	39.90	33.3	9.89	9.46	315	25
CS3K-320PB-AG	1500	40.10	33.5	9.97	9.56	320	25
CS3K-325PB-AG	1500	40.90	33.7	10.21	9.65	325	25
CS3K-330PB-AG	1500	41.10	33.9	10.29	9.74	330	25
CS3K-335PB-AG	1500	41.30	34.1	10.37	9.83	335	25
CS3K-340PB-AG	1500	41.50	34.3	10.45	9.92	340	25
CS3K-345PB-AG	1500	41.70	34.5	10.52	10.00	345	25
CS3K-350PB-AG	1500	41.90	34.7	10.60	10.09	350	25
CS3Y-465MB-AG	1500	52.3	43.6	11.42	10.67	465	25
CS3Y-470MB-AG	1500	52.5	43.8	11.47	10.74	470	25
CS3Y-475MB-AG	1500	52.7	44.0	11.52	10.81	475	25
CS3Y-480MB-AG	1500	52.9	44.2	11.57	10.87	480	25
CS3Y-485MB-AG	1500	53.1	44.4	11.62	10.94	485	25



**Certificate:** 80016357

**Master Contract:** 249143

**Project:** 80061549

**Date Issued:** 2020-12-10

Model Type	Maximum DC System Voltage (V)	Open Circuit Voltage (V)	Maximum power voltage (V)	Short Circuit Current (A)	Maximum power current (A)	Maximum Power (Watts)	Maximum overcurrent protection rating (A)
CS3Y-490MB-AG	1500	53.3	44.6	11.67	11.00	490	25
CS3Y-430PB-AG	1500	50.8	41.6	11.08	10.34	430	25
CS3Y-435PB-AG	1500	51.0	41.8	11.13	10.41	435	25
CS3Y-440PB-AG	1500	51.2	42.0	11.18	10.48	440	25
CS3Y-445PB-AG	1500	51.4	42.2	11.23	10.55	445	25
CS3Y-450PB-AG	1500	51.6	42.4	11.28	10.62	450	25
CS3Y-455PB-AG	1500	51.8	42.6	11.33	10.69	455	25
CS3Y-460PB-AG	1500	52.0	42.8	11.38	10.75	460	25
CS3Y-465PB-AG	1500	52.2	43.0	11.43	10.82	465	25
CS3Y-470PB-AG	1500	52.4	43.2	11.48	10.88	470	25
CS3Y-475PB-AG	1500	52.6	43.4	11.53	10.95	475	25
CS3Y-480PB-AG	1500	52.8	43.6	11.58	11.01	480	25

Note:

- All electrical data are shown as relative to standard test conditions (STC) (1000 W/m<sup>2</sup>, (25 ± 2) °C, AM 1.5 according to IEC 60904-3).
- The manufacturer declared tolerance of Open-circuit voltage, Short-circuit current is ±5%, the manufacturer declared tolerance of Maximum power is ±3%.
- CS3U-xxxPB-AG, CS3W-xxxMB-AG, CS3U-xxxMB-AG, CS3K-xxxMB-AG, CS3W-xxxPB-AG, CS3K-xxxPB-AG, CS3Y-xxxPB-AG, CS3Y-xxxMB-AG series are bifacial modules, the electrical power performance shown in the table above is only generated by front side of the module, more power may be generated if considering back side of the module.
- The operating ambient temperature of these devices may exceed 40 °C at full load for all wire sizes if it is determined suitable in the field use application.

**APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 61730-1:19	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction
CAN/CSA-C22.2 No. 61730-2:19	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing
UL 61730-1:2017	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction
UL 61730-2:2017	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing



**Certificate:** 80016357  
**Project:** 80061549

**Master Contract:** 249143  
**Date Issued:** 2020-12-10

### *Supplement to Certificate of Compliance*

**Certificate:** 2284121

**Master Contract:** 249143

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

### **Product Certification History**

<b>Project</b>	<b>Date</b>	<b>Description</b>
80061549	2020-12-10	Update report 80016357 to add CS3Y-xxxMB-AG, CS3Y-xxxPB-AG new model series, add B05U type new junction box, add new specification for cell interconnector, string interconnector, add F41 type new frame, update the thickness for encapsulation materials.
80049384	2020-10-22	Update report 80016357 to add EP304/EP304 type new EPE/EPE, add F406PS/EP304 type new EVA/EPE, add T2019P/T2019P type new EPE/EPE, add T2014/T2019P type new EVA/EPE, add type HT906Z, SX1110-A, HT8258 new adhesive for frame, add new superstrate glass, substrate glass manufactured by Flat Glass Group Co., Ltd.
80046229	2020-10-19	Update report 80016357 to add CS3W-xxxPB-AG, CS3K-xxxPB-AG new model series, add CC7P9-BPS type new solar cell, add T22 type new POE, add B05S type new junction box and related components of output wiring system 2, add new D60F6-2 type cell fixing tape, add 1527, HT906Z, HT-8258 type new adhesive for junction box, add new manufacturers of superstrate glass, substrate glass, frame, cell interconnector, string interconnector.
80042991	2020-10-18	Update report 80016357 to add new bifacial cell DMBD9B166 manufactured by DMEGC.
80049383	2020-09-23	Update report 80016357 to add CS3W-xxxMB-AG, CS3U-xxxMB-AG, CS3K-xxxMB-AG new model series, add CC7M9-BPS, CC6M9-BPS new solar cells, add new solar cell interconnector, new manufacturer of string interconnector.
80053548	2020-09-03	Update report 80016357 to add 6063 T5 material for F26 frame and update standard from CAN/CSA-C22.2 No. 61730-2:11 to CAN/CSA-C22.2 No. 61730-2:19 version.
80016537	2020-01-06	CSA C/US initial Certification for Photovoltaic (PV) Modules, Module Model Series CS3U-xxxPB-AG (xxx = 350 to 395 W).