



Certificate of Compliance

Certificate: 70160198

Master Contract: 271286

Project: 70160198

Date Issued: 2017-10-25

Issued to: SolarWorld Industries GmbH
Martin-Luther-King-Str.24
Bonn, Nordrhein-Westfalen 53175
GERMANY
Attention: Markus Hund

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: Tom Yang
Tom Yang

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 system voltage of 1000 V dc or 1500 V and with Fire Performance of Type 1, Model Series:

Sunmodule Plus Series

“Sunmodule Plus SW xxx mono”, where ‘xxx’ is the output power in W, from 200 to 320, may be followed by “black”, may be followed by “laminated”.

“Sunmodule Plus SW xxx poly”, where ‘xxx’ is the output power in W, from 200 to 285, may be followed by “black” may be followed by “laminated”.

Sunmodule XL Series



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“Sunmodule SW xxx XL mono”, where ‘xxx’ is the output power in W, from 305 to 385, may be followed by "black".

“Sunmodule SW xxx XL poly”, where ‘xxx’ is the output power in W, from 260 to 335, may be followed by "black".

Sunmodule Bisun XL Series

“Sunmodule Bisun SW xxx XL duo”, where ‘xxx’ is the output power in W, from 305 to 385, may be followed by “black”

Photovoltaic Modules with maximum system voltage of 1000 V dc and with Fire Performance of Type 3, Model Series:

Sunmodule Protect Series

“Sunmodule Protect SW xxx mono”, where ‘xxx’ is the output power in W, from 200 to 320, may be followed by "black" or “clear”, may be followed by “laminated”.

“Sunmodule Protect SW xxx poly”, where ‘xxx’ is the output power in W, from 200 to 285, may be followed by "black" or “clear”, may be followed by “laminated”.

Sunmodule Bisun Series

“Sunmodule Bisun SW xxx duo”, where ‘xxx’ is the output power in W, from 200 to 320, may be followed by "black" or “clear”, may be followed by “laminated”.

Electrical Ratings -

Sunmodule Plus Series - Mono-crystalline Versions

Model	Open Circuit Voltage at STC, (V dc)	Rated Voltage at STC, (V dc)	Rated Current at STC, (A dc)	Short Circuit Current at STC, (A dc)	Rated Maximum Power at STC, (Watts)
SW 315	40.5	33.4	9.52	9.99	315
SW 310	40.3	33.1	9.45	9.94	310
SW 305	40.1	32.8	9.38	9.90	305
SW 300	40.0	32.6	9.31	9.83	300
SW 295	39.8	32.3	9.25	9.78	295
SW 290	39.6	31.9	9.20	9.75	290
SW 285	39.4	31.7	9.12	9.68	285
SW 280	39.5	31.2	9.07	9.71	280
SW 275	39.4	31.0	8.94	9.58	275
SW 270	39.2	30.9	8.81	9.44	270
SW 265	39.0	30.8	8.69	9.31	265
SW 260	38.9	30.7	8.56	9.18	260



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SW 255	38.7	30.6	8.43	9.05	255
SW 250	37.8	31.1	8.05	8.28	250
SW 245	37.7	30.8	7.96	8.25	245
SW 240	37.6	30.6	7.87	8.22	240
SW 235	37.5	30.3	7.77	8.19	235
SW230	37.4	30.0	7.68	8.16	230
SW 225	37.3	29.7	7.59	8.13	225
SW 220	37.2	29.4	7.50	8.10	220
SW 215	37.1	29.1	7.41	8.07	215
SW 210	37.0	28.8	7.32	8.04	210
SW 205	37.0	28.5	7.22	8.01	205
SW 200	36.9	28.2	7.13	7.98	200

Sunmodule Protect Series - Mono-crystalline Versions

Model	Open Circuit Voltage at STC, (V dc)	Rated Voltage at STC, (V dc)	Rated Current at STC, (A dc)	Short Circuit Current at STC, (A dc)	Rated Maximum Power at STC, (Watts)
SW 310	40.3	33.0	9.50	9.99	310
SW 305	40.1	32.8	9.41	9.89	305
SW 300	39.9	32.6	9.31	9.79	300
SW 295	39.6	32.4	9.19	9.71	295
SW 290	39.5	32.2	9.12	9.60	290
SW 285	39.2	32.0	9.00	9.52	285
SW 280	39.0	31.8	8.93	9.45	280
SW 275	39.4	31.0	8.94	9.58	275
SW 270	39.2	30.9	8.81	9.44	270
SW 265	39.0	30.8	8.69	9.31	265
SW 260	38.9	30.7	8.56	9.18	260
SW 255	38.7	30.6	8.43	9.05	255
SW 250	37.8	31.1	8.05	8.28	250
SW 245	37.7	30.8	7.96	8.25	245
SW 240	37.6	30.6	7.87	8.22	240
SW 235	37.5	30.3	7.77	8.19	235
SW230	37.4	30.0	7.68	8.16	230
SW 225	37.3	29.7	7.59	8.13	225
SW 220	37.2	29.4	7.50	8.10	220
SW 215	37.1	29.1	7.41	8.07	215
SW 210	37.0	28.8	7.32	8.04	210
SW 205	37.0	28.5	7.22	8.01	205
SW 200	36.9	28.2	7.13	7.98	200

Sunmodule Plus Series - Poly-crystalline Versions

Model	Open Circuit	Rated Voltage at	Rated Current at	Short Circuit	Rated Maximum
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	Voltage at STC, (V dc)	STC, (V dc)	STC, (A dc)	Current at STC, (A dc)	Power at STC, (Watts)
SW 280	38.5	31.8	8.88	9.42	280
SW 275	38.3	31.6	8.79	9.33	275
SW 270	38.0	31.3	8.71	9.24	270
SW 265	37.9	31.1	8.62	9.14	265
SW 260	37.6	30.8	8.54	9.06	260
SW 255	38.0	30.9	8.32	8.88	255
SW 250	37.6	30.5	8.27	8.81	250
SW 245	37.3	30.1	8.22	8.75	245
SW 240	36.9	29.7	8.17	8.69	240
SW 235	37.0	30.0	7.85	8.35	235
SW 230	36.9	29.8	7.72	8.25	230
SW 225	36.8	29.5	7.63	8.17	225
SW 220	36.6	29.2	7.54	8.08	220
SW 215	36.5	28.9	7.44	8.00	215
SW 210	36.4	28.7	7.32	7.90	210
SW 205	36.2	28.5	7.20	7.80	205
SW 200	36.1	28.3	7.07	7.70	200

Sunmodule Protect Series - Poly-crystalline Versions

Model	Open Circuit Voltage at STC, (V dc)	Rated Voltage at STC, (V dc)	Rated Current at STC, (A dc)	Short Circuit Current at STC, (A dc)	Rated Maximum Power at STC, (Watts)
SW 280	39.8	33.0	8.58	9.19	280
SW 275	39.4	32.6	8.53	9.13	275
SW 270	39.1	32.2	8.48	9.07	270
SW 265	38.7	31.8	8.43	9.00	265
SW 260	38.4	31.4	8.37	8.94	260
SW 255	38.0	30.9	8.32	8.88	255
SW 250	37.6	30.5	8.27	8.81	250
SW 245	37.3	30.1	8.22	8.75	245
SW 240	36.9	29.7	8.17	8.69	240
SW 235	37.0	30.0	7.85	8.35	235
SW 230	36.9	29.8	7.72	8.25	230
SW 225	32.2	29.5	7.63	8.17	225
SW 220	36.6	29.2	7.54	8.08	220
SW 215	36.5	28.9	7.44	8.00	215
SW 210	36.4	28.7	7.32	7.90	210
SW 205	36.2	28.5	7.20	7.80	205
SW 200	36.1	28.3	7.07	7.70	200

Sunmodule XL Series - Mono-crystalline Versions



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Model	Open Circuit Voltage at STC, (V dc)	Rated Voltage at STC, (V dc)	Rated Current at STC, (A dc)	Short Circuit Current at STC, (A dc)	Rated Maximum Power at STC, (Watts)
SW 360	48.4	38.9	9.32	9.95	360
SW 355	48.2	38.7	9.25	9.89	355
SW 350	48.0	38.4	9.17	9.82	350
SW 345	47.8	38.2	9.10	9.75	345
SW 340	47.6	38.0	9.01	9.69	340
SW 335	47.4	37.8	8.93	9.62	335
SW 330	47.2	37.5	8.87	9.55	330
SW 325	46.1	37.0	8.84	9.48	325
SW 320	45.9	36.7	8.78	9.41	320
SW 315	45.6	36.5	8.71	9.35	315
SW 310	45.4	36.2	8.64	9.28	310
SW 305	45.6	36.3	8.49	9.02	305

Sunmodule XL Series - Poly-crystalline Versions

Model	Open Circuit Voltage at STC, (V dc)	Rated Voltage at STC, (V dc)	Rated Current at STC, (A dc)	Short Circuit Current at STC, (A dc)	Rated Maximum Power at STC, (Watts)
SW 335	46.8	39.0	8.61	9.20	335
SW 330	46.6	38.7	8.54	9.13	330
SW 325	46.2	38.4	8.48	9.05	325
SW 320	46.1	38.2	8.40	8.96	320
SW 315	45.9	37.9	8.33	8.88	315
SW 310	45.6	37.6	8.26	8.80	310
SW 305	45.4	37.4	8.19	8.72	305
SW 300	45.2	37.1	8.12	8.63	300
SW 295	45.0	36.8	8.04	8.55	295
SW 290	44.8	36.5	7.97	8.47	290
SW 285	44.6	36.2	7.90	8.39	285
SW 280	44.3	36.0	7.83	8.31	280
SW 275	43.3	35.5	7.75	8.25	275
SW 270	42.9	35.2	7.68	8.17	270
SW 265	42.6	34.9	7.60	8.09	265
SW 260	42.2	34.6	7.52	8.00	260

Sunmodule XL Bisun Series



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SW 330	47.1	38.2	8.69	9.29	330
SW 325	47.0	37.7	8.68	9.28	325
SW 320	47.1	37.4	8.67	9.26	320

Sunmodule Bisun Series

Model	Open Circuit Voltage at STC, (V dc)	Rated Voltage at STC, (V dc)	Rated Current at STC, (A dc)	Short Circuit Current at STC, (A dc)	Rated Maximum Power at STC, (Watts)
SW 300	40.0	32.6	9.30	9.80	300
SW 295	39.9	32.3	9.22	9.73	295
SW 290	39.8	32.2	9.12	9.65	290
SW 285	39.7	31.9	9.02	9.55	285
SW 280	39.5	31.8	8.95	9.49	280
SW 275	39.1	31.7	8.69	9.51	275
SW 270	39.0	31.3	8.68	9.28	270
SW 265	39.0	31.0	8.67	9.26	265

Notes:

1. Modules followed by ‘laminated’ are approved only as components which are sold to manufacturers of complete modules where the final product is subject to approval by CSA Group.
2. 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.

SolarWorld Type 1 and Type 3 modules with Sunfix Plus ® Mount mounting system in combination with roof coverings were evaluated to System Fire Class A Rating, Steep Slope 5/12 & Low Slope ½/12. Type 1 or Type 3 modules mounted as per Sunfix Plus Mounting Manual, and Sunfix Plus ® Mount mounting system construction as per Sunfix Plus Mounting Manual.

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
70160198	2017-10-25	Duplicate of CSA certification (report 2593411) from SolarWorld AG, Master Contract 257442 to SolarWorld Industries GmbH, Master Contract 271286.