



Certificate of Compliance

Certificate: 2094467

Master Contract: 244748 (244748)

Project: 70148571

Date Issued: 2017-08-02

Issued to: Solibro GmbH
OT Thalheim, Sonnenallee 32-36
Bitterfeld-Wolfen, 06766
GERMANY
Attention: Thomas Scholz

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: Chao (Chris) Wang
Chao (Chris) Wang

PRODUCTS

CLASS - C531110 - POWER SUPPLIES-Photovoltaic Modules and Panels

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

CIGS, Photovoltaic Panels with maximum system voltage of 600 V dc and Class C fire class rating, Model Series SL1-XX and SL1-XXF, where XX is the power output from 70 W to 95 W and F denotes modules with a frame, with the following electrical ratings @ Standard Test Condition (STC):

Nominal Power	70 W	75 W	80 W	85 W	90 W	95 W
Open Circuit Voltage	69.1 V dc	70.5 V dc	71.8 V dc	73.1 V dc	75.1 V dc	77.2 V dc
Short Circuit Current	1.66 A	1.66 A	1.67 A	1.68 A	1.69 A	1.70 A
Operating (Rated) Voltage	50.2 V dc	52.7 V dc	54.8 V dc	57.2 V dc	59.2 V dc	61.3 V dc
Current at Rated Voltage	1.40 A	1.42 A	1.46 A	1.49 A	1.52 A	1.55 A



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Model Series SL2-XX and SL2-XXF, where XX is the power output from 95 W to 150 W and F denotes modules with a frame, with the following electrical ratings @ Standard Test Condition (STC):

Nominal Power (W)	Open Circuit Voltage (V dc)	Short Circuit Current (A)	Operating Voltage (V dc)	Operating Current (A)
95	90.7	1.63	66.9	1.42
100	90.1	1.68	68.5	1.46
105	91.6	1.68	70.5	1.49
110	93.3	1.69	72.4	1.52
115	95.1	1.69	74.7	1.54
120	97.6	1.69	76.9	1.56
125	103.4	1.73	83.4	1.50
130	104.5	1.75	84.5	1.54
135	105.6	1.77	85.5	1.58
140	106.7	1.79	86.5	1.62
145	107.8	1.81	87.4	1.66
150	108.9	1.83	88.3	1.70

Note: The power classes are defined by positive sorting (+5 W/- 0W) according to measured Pmax under STC. The accuracy of this measurement is $\pm 5\%$. Isc, Voc, Imp, Vmp are within $\pm 10\%$ of the indicated values under STC. Valid indoor measurement of STC performance is obtained by pre-treating the modules before measurement by 1 hour light soaking (at about 1000 W/m² in open circuit) followed by cool down to 25°C.

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
70148571	2017-08-02	Update report to add an alternative insulation cover tape and an alternative mounting position.
70106111	2016-11-07	Update report 2094467 to increase in power output of SL2 modules to 150 W.
70100175	2016-10-17	Update Report 2094467 to add alternate edge tape Quanex LP03 as previously tested under project number 70045651.
70045651	2015-10-19	Report Update for the evaluation of alternative edge tape/sealant and increasing mechanical load specs.
2747982	2014-07-25	Update to include alternative mounting methods.
2705154	2014-03-21	Update to include alternative encapsulation materials and change in internal electrical circuit.
2682185	2013-11-29	Update to include the addition of a frame to model series SL2 and alternative j-box.
2558746	2012-09-06	Update to increase power output to 120 W.
2537682	2012-06-25	Update to include modification to the TCO glass.
2316328	2010-09-30	Update to include Model Series SL2.
2094467	2009-06-25	CIGS PV Panels to UL 1703 plus testing to IEC 61646 and IEC 61730 series (CSA/US)