



# Certificate of Compliance

**Certificate:** 2720492

**Master Contract:** 260665

**Project:** 70167479

**Date Issued:** 2018-03-30

**Issued to:** Wuxi Suntech Power Co., Ltd.  
 12 Xinhua Road  
 New District  
 Wuxi, Jiangsu 214028  
 CHINA  
 Attention: Jing Li

*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:** Xueming (Simon) Shen  
 Xueming (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, 1000 V dc or 1500 V dc and Class C fire class rating (for modules with substrate materials of thickness less than 0.30mm) and fire performance rating of Type 1 (for modules with substrate materials of thickness equal and greater than 0.30mm) or Type2 (for modules with substrate materials of thickness less than 0.30mm), model types STPXXXS-24, STPXXX-24, STPXXXS-20, STPXXX-20, OPTXXX-72 and OPTXXX-60 have the maximum power range of 370W, 340W, 310W, 280W, 370W and 310W respectively, with the following electrical ratings @Standard Test Condition (STC):

Model Series	Power Output	Voc (V)	Isc (A)	Vpmax(V)	Ipmax (A)
STPXXX-24/Vd, STPXXXS-24/Vd	220-370W	43.6-47.6	7.04-10.06	34.2-38.8	6.43-9.54
STPXXX-24/Vdb, STPXXXS-24/Vdb	220-370W	43.6-47.6	7.04-10.06	34.2-38.8	6.43-9.54
STPXXX-24/Vdx, STPXXXS-24/Vdx	220-370W	43.6-47.6	7.04-10.06	34.2-38.8	6.43-9.54
STPXXX-24/Ve, STPXXXS-24/Ve	220-370W	43.6-47.6	7.04-10.06	34.2-38.8	6.43-9.54
STPXXX-24/Vem, STPXXXS-24/Vem, STPXXX-24/Vem+, STPXXX-24/Vem-MX, STPXXXS-24/Vem-MX, STPXXX-24/Vfw- MX, STPXXX-24/Vfw, STPXXX-24/Vfs, STPXXX-24/Vfb	220-370W	40.9-47.6	7.04-10.37	34.2-38.8	6.43-9.84
STPXXXS-24/Vfm, STPXXXS-24/Vfb,	220-370W	40.9-47.6	7.04-10.37	34.2-38.8	6.43-9.84



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Model Series	Power Output	Voc (V)	Isc (A)	Vpmax(V)	Ipmax (A)
STPXXXS-24/Vfw, STPXXXS-24/Vfs, STPXXXS-24/Vfw-MX					
STPXXX-24/Ver, STPXXXS-24/Ver	220-370W	43.6-47.6	7.04-10.06	34.2-38.8	6.43-9.54
STPXXX-24/Ves, STPXXXS-24/Ves	220-370W	43.6-47.6	7.04-10.06	34.2-38.8	6.43-9.54
STPXXX-24/VRM-1, STPXXXS-24/VRM-1	220-370W	43.6-47.6	7.04-10.06	34.2-38.8	6.43-9.54
STPXXX-24/VRM-1.5, STPXXXS-24/VRM-1.5	220-370W	43.6-47.6	7.04-10.06	34.2-38.8	6.43-9.54
STPXXX-20/Wd, STPXXXS-20/Wd	210-310W	36.4-40.6	7.86-9.87	29.0-32.2	7.24-9.63
STPXXX-20/Wdb, STPXXXS-20/Wdb	210-310W	36.4-40.6	7.86-9.87	29.0-32.2	7.24-9.63
STPXXXS-20/Wd+, STPXXXS-20/Wdb+	210-310W	36.4-40.6	7.86-9.87	29.0-32.2	7.24-9.63
STPXXX-20/Wde, STPXXXS-20/Wde	210-310W	36.4-40.6	7.86-9.87	29.0-32.2	7.24-9.63
STPXXX-20/Wds, STPXXXS-20/Wds	210-310W	36.4-40.6	7.86-9.87	29.0-32.2	7.24-9.63
STPXXX-20/Wdz, STPXXXS-20/Wdz	210-310W	36.4-40.6	7.86-9.87	29.0-32.2	7.24-9.63
STPXXX-20/We, STPXXXS-20/We	210-310W	36.4-40.6	7.86-9.87	29.0-32.2	7.24-9.63
STPXXX-20/Wes, STPXXXS-20/Wes	210-310W	36.4-40.6	7.86-9.87	29.0-32.2	7.24-9.63
STPXXX-20/Wem, STPXXXS-20/Wem, STPXXXS-20/Wew, STPXXX-20/Wem-MX, STPXXXS-20/Wem-MX, STPXXXS-20/Wew- MX, STPXXXS-20/Wew-MX	210-310W	36.4-40.6	7.86-9.87	29.0-32.2	7.24-9.63
STPXXXS-20/Wfm, STPXXXS-20/Wfb, STPXXXS-20/Wfw, STPXXXS-20/Wfs, STPXXXS-20/Wfw-MX, STPXXXS- 20/Wfm-MX, STPXXXS-20/Wfb-MX	210-310W	35.0-40.6	7.86-10.00	29.0-32.2	7.24-9.71
STPXXX-20/Web, STPXXXS-20/Web, STPXXXS-20/Web-MX, STPXXX-20/Wfw- MX, STPXXX-20/Wfw, STPXXX-20/Wfb, STPXXX-20/Wfm, STPXXX-20/Wfs	210-310W	35.0-40.6	7.86-10.00	29.0-32.2	7.24-9.71
STPXXX-20/Wem+ , STPXXX-20/Wee+	210-310W	36.4-40.6	7.86-9.87	29.0-32.2	7.24-9.63
STPXXXS-24/Ad+, STPXXXS-24/Adb+	210-290W	36.4-39.8	7.86-9.55	29.0-31.7	7.24-9.15
STPXXX-Hda	140-205W	43.0-45.6	4.49-5.9	34.1- 36.9	4.11-5.56
OPTXXX-72-4-100	220-370W	43.6-47.6	7.04-10.06	34.2-38.8	6.43-9.54
OPTXXX-60-4-100	210-310W	36.4-40.6	7.86-9.87	29.0-32.2	7.24-9.63

**Note:**

1. Rated electrical characteristics are within +/-10% of measured values at Standard Test Conditions of 100 mW/cm<sup>2</sup> irradiance, AM 1.5 spectrum, and 25°C.
2. Three letters “XXX” in the model name indicate power rating of the module, can be replaced by three digits within the range of the power output in the second column.

**APPLICABLE REQUIREMENTS**

- ULC/ORD- C1703-01 - Flat-Plate Photovoltaic Modules and Panels
- UL 1703-3<sup>rd</sup> 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**

<b>Project</b>	<b>Date</b>	<b>Description</b>
70167479	2018-03-30	Update Report to add new backsheet BEC-303 made by FIRST and related new combinations of the EVA/backsheets/junction box/junction box adhesive.
70167478	2018-03-21	Update Report to add two new cells made by Suntech, new specification of cell ribbon and related new module name suffix.
70162044	2018-01-02	Update Report 2720492 to add a new junction box made by DONGGUAN ZERUN ELECTRONICS TECHNOLOGY CO LTD and update the series name as suffix "Wem-MX, Vem-MX, Wew-MX, Web-MX".
70094222	2016-12-30	Update Report to add two new factories "Seraphim Solar USA Manufacturing, Inc." and "Silfab Ontario, Inc."
70085609	2016-12-15	Update report 2720492 to qualify a new PV module BOM & add a new manufacturer sunvia.
70096057	2016-12-15	Update report 2720492 for alternate a new cell, new substrate, new combination of substrate & EVA, new sealing material.
70104438	2016-12-15	Update report 2720492 add 1500V model, add backsheet.
70113662	2016-12-15	Add a new factory Suniva - Saginaw.
70092673	2016-09-05	Multiple listing for STPxxxS series module
70055097	2015-12-17	Update to Report 2720492 (MC 260665) to add factory( without IFE), alternative cell, and STP-JBOX01 junction box with 3 back sheets.
70029959	2015-06-30	Update test report 2720492 for 1. Item #3 - add 'CSUN Energy' type CSUN-M156-3BB-96, 3BB, 200 microns thickness 2. Item #3 - add 'AIKO Solar' type 156 POLY 3BB, 3BB, 200 microns thickness 3. Item #6 - add Tin coated copper alloy ribbon, 1.3 mm wide, and 0.25-0.27 mm nominal thickness for 4BB cell technology. Note: it was tested with 'Suntech' type STP156M, 4BB cell under project #xxx, but was not recorded in the test report #???. 4. Item #8 - Add 'Changzhou Baijia PV Material Co. Ltd.' EVA type B610P (rear EVA) and B610HP (front EVA), 0.5mm thickness with backsheet type TPEw supplied by Lucky film co.,ltd. 5. Item #8 - Add a new encapsulation system combination backsheet type SP-FPE3350D, supplied by Wuxi Sunocean co.,ltd. will be approved together with EVA pairing supplied by SVECK, Type: 15296 (above cell) / 15297 (below cell). 6. Item #10 - Add new Jobx adhesive type HT906Z supplied by Huitian New materials Co.,ltd to be used with J-box type TL-BOX026 and backsheet type TPEw supplied by Lucky film co., ltd. 7. Item #14 - Add new frame sealant



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		HT906Z supplied by Huitian New materials Co., ltd
70024170	2015-02-18	Update Report 2720492 to include two alternative cells.
70015172	2014-11-13	Update Report 2720492 to add alternative backsheet with earlier approved EVA combinations and JBox and Fire Rating Type.
2759885	2014-10-07	Update report 2720492 to add four alternative cells, alternative backsheet with alternative JBox
2720492	2014-04-23	Duplicate of certification from 242937 and addition of BS/EVA combinations.