



# Certificate of Compliance

**Certificate:** 70120603

**Master Contract:** 269466 (269466)

**Project:** 70172129

**Date Issued:** 2018-02-23

**Issued to:** Calyxo GmbH  
Sonnenallee 1a  
DE  
Bitterfeld-Wolfen, Sachsen-Anhalt 06766  
GERMANY  
Attention: Toralf Patzlaff

*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

CdTe / CdS Thin Film Solar Modules, maximum system voltage 600 V dc. Module Fire Performance Type 6.  
Models as below:

Model	Open Circuit Voltage at STC (V dc)	Short Circuit Current at STC (A dc)	Rated Voltage at STC (V dc)	Rated Current at STC (A dc)	Rated Maximum Power at STC (Watts)
CX1 55	88.6	1.17	59.5	0.95	55.0
CX1 57	89.7	1.17	61.1	0.97	57.5
CX1 60	90.7	1.17	62.6	0.98	60.0
CX1 62	91.6	1.18	64.2	0.99	62.5
CX1 65	92.5	1.18	65.9	1.00	65.0
CX1 67	91.7	1.25	64.7	1.06	67.5



**Certificate:** 70120603  
**Project:** 70172129

**Master Contract:** 269466  
**Date Issued:** 2018-02-23

CX1 70	92.9	1.25	65.8	1.07	70.0
CX1 72	93.2	1.26	67.0	1.09	72.5
CX1 75	94.0	1.27	69.0	1.10	75.0
CX1 77	94.8	1.28	70.0	1.12	77.5
CX1 80	95.5	1.29	71.4	1.13	80.0
CX3 72	59.5	2.14	40.8	1.81	72.5
CX3 75	59.6	2.15	42.0	1.82	75.0
CX3 77	59.6	2.16	43.0	1.83	77.5
CX3 80	59.8	2.16	44.1	1.84	80.0
CX3 82	60.0	2.16	44.4	1.87	82.5
CX3 85	60.0	2.17	45.2	1.89	85.0
CX3 87	61.1	2.17	46.2	1.91	87.5
CX3pro 72	56.5	2.01	42.0	1.73	72.5
CX3pro 75	57.0	2.04	42.9	1.75	75.0
CX3pro 77	57.5	2.06	43.8	1.77	77.5
CX3pro 80	58.0	2.08	44.7	1.79	80.0
CX3pro 82	58.5	2.10	45.6	1.81	82.5
CX3pro 85	59.0	2.11	46.2	1.84	85.0
CX3pro 87	59.5	2.13	46.8	1.87	87.5
CX3pro 90	60.0	2.15	47.6	1.89	90.0
CX4 80	88.5	1.34	68.0	1.18	80.0
CX4 82	88.7	1.36	69.0	1.20	82.5
CX4 85	89.0	1.38	70.4	1.21	85.0
CX4 87	89.2	1.39	71.3	1.23	87.5
CX4 90	89.4	1.40	72.0	1.25	90.0

Notes:

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. Products manufactured with modified semiconductor material have suffix /2 added to the model number.

**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*

**Certificate:** 70120603

**Master Contract:** 269466 (269466)

*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>
70172129	2018-02-23	Update Report 70120603 to add alternative interconnection & end ribbons and alternative edge sealing "SET LP03", and update Factory Dielectric Voltage Withstand Test and Factory Wet Insulation-Resistance Test based on UL 1703 revisions dated September 13, 2017.
70155996	2017-09-19	Update report 70120603 to change in cell technology, composition of the absorber slightly changed, but no changes on the interface to the encapsulant.
70120603	2017-06-07	CSA C/US Certification for CdTe Thin film modules, CX1 55, CX1 57, CX1 60, CX1 62, CX1 65, CX1 67, CX1 70, CX1 72, CX1 75, CX1 77, CX1 80, CX3 72, CX3 75, CX3 77, CX3 80, CX3 82, CX3 85, CX3 87, CX3pro 72, CX3pro 75, CX3pro 77, CX3pro 80, CX3pro 82, CX3pro 85, CX3pro 87, CX3pro 90, CX4 80, CX4 82, CX4 85, CX4 87, CX4 90.